

March 8, 2005

Mr. Barney Chan  
Alameda County Health Care Services Agency (ACHCSA)  
1131 Harbor Bay Parkway  
Alameda, CA 94502

Re: **Fourth Quarter 2004 Vapor Sampling Report**  
Former Chevron Station 9-0260  
21995 Foothill Blvd.  
Hayward, California  
Cambria Project No. 31H-1915  
ACHCSA No. RO0000143-1 ✓ 383

Alameda County  
MAR 10 2005  
Environmental Health



Dear Mr. Chan:

On behalf of Chevron Environmental Management Company (ChevronTexaco), Cambria Environmental Technology Inc. (Cambria) submits this report summarizing the results of four vapor sampling events of 2004 at the site referenced above.

## SAMPLING RESULTS

In January 2004, Cambria implemented quarterly sampling of onsite vapor probes VP-1 through VP-3. These three probes were installed July 31, 2003 and consist of three separate depth intervals in each probe location. Soil vapors from these probes were collected and analyzed in January, May, September and December of 2004. The following summarizes the sampling events for the year 2004.

**Field Personnel:** Senior Staff Geologists Aja Yee, Sarah Owen, and Kristene Tidwell, Staff Geologist Charlotte Evans, and Staff Scientist Kamran Javandel performed field sampling under the supervision of California Professional Geologist Robert Foss.

**Sampling Dates:** January 23 and 26, May 26, September 29 and 30, and December 21 and 22, 2004.

**Soil Vapor Sampling Technique (First through Third Quarters):** Based on calculated purge volumes, a battery-powered air pump with attached vacuum-chamber and Tedlar™ bag was used to estimate and evacuate an appropriate volume from the sampling point tubing during purging. Purge volume calculations are presented in Attachment A.

**Cambria  
Environmental  
Technology, Inc.**

5900 Hollis Street  
Suite A  
Emeryville, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170



A 30-minute flow meter with vacuum gauge and a 6-liter Summa™ canister were connected to the sampling tubing at each vapor probe with connector tubing, barbed fittings, and hose clamps. After purging, the Summa™ canister valve was opened. The vacuum of the Summa™ canister was used to draw the soil vapor through the flow controller until a negative pressure of approximately 5-inches of Hg was observed on the vacuum gauge.

In accordance with the Los Angeles Regional Water Quality Control Board's (LARWQCB) Advisory-Active Soil Gas Investigations guidance document, dated January 28, 2003, leak testing was performed during sampling. Paper towels soaked in isopropanol (a.k.a. 2-propanol) were placed in open plastic bags that were wrapped around and tied to the sample system connections. A diagram representing the old sampling device is presented in Attachment B.

***Soil Vapor Sampling Technique (Fourth Quarter):*** A 6-liter Summa™ canister with a 30-minute flow control meter was connected to a battery-powered sampling apparatus which was connected to the sampling tubing at each vapor probe. Purging and sampling were conducted with this single apparatus. Purge volumes were calculated using the table presented in Attachment A. A Tedlar™ bag was attached to the battery-powered sampling device and was used to estimate and evacuate the purge volume from each sampling point tube. A diagram representing the new battery-powered sampling apparatus is presented in Attachment B.

After purging, the valves between the sampling apparatus and sampling point tubing and the valve between the Summa™ canister and the new sampling apparatus were both opened. The vacuum of the Summa™ canister was used to draw the soil vapor through the flow control meter until a negative pressure of approximately 5-inches of Hg was observed on the vacuum gauge.

Leak testing was performed during sampling in accordance with the Los Angeles Regional Water Quality Control Board's (LARWQCB) Advisory-Active Soil Gas Investigations guidance document, dated January 28, 2003. Paper towels soaked in isopropanol (a.k.a. 2-propanol) were placed in open plastic bags that were wrapped around and tied to the sample system connections.

**Laboratory Analysis:** Vapor samples were analyzed for:

- Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA), tertiary amyl methyl ether (TAME), di-isopropyl ether (DIPE), and ethyl tertiary butyl ether (ETBE) by EPA Method T0-15.
- Oxygen, methane, and carbon dioxide by ASTM D 1946M.



## HYDROCARBON RESULTS FOR SOIL VAPOR SAMPLES

### First Quarter

On January 23 and 26, 2004, vapor probes VP-1 through VP-3 were sampled at three discrete depths. Purging was conducted at a rate of approximately 0.5 liters per second (L/sec). Sampling was conducted at rates ranging from approximately 0.0045 to 0.001 L/sec. Vapor samples were collected in Summa™ canisters after removing approximately three purge volumes from each discrete interval.

TPHg vapors collected during this sampling event ranged from 11,000 to 2,500,000 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). TPHg vapor concentrations were greatest at the deepest depth interval in vapor probes VP-1 and VP-2. Benzene vapors collected during this investigation were only detected at 12 fbg in VP-3 at a concentration of 11  $\mu\text{g}/\text{m}^3$ . All other benzene samples were below method detection limits (MDLs), which ranged from 6.3 to 1,400  $\mu\text{g}/\text{m}^3$ . All MTBE vapors collected during this investigation ranged from <28 to <6,200  $\mu\text{g}/\text{m}^3$  and were below MDLs. MDLs were elevated for a number of samples due to laboratory dilution requirements described below. Soil vapor analytic results are presented in Table 1. Laboratory analytical results for the year are presented in Attachment C.

Some benzene and MTBE method detection limits (MDLs) were elevated, possibly masking any true Hydrocarbon detections. The lab report states that dilution was performed on all samples due to "the presence of high level non-target species." Dilution caused the high MDLs and the "non-target species" was identified as the leak test compound isopropanol. VP1 at 12 fbg and VP3 at 12 fbg had significant vacuum remaining in the Summa canisters. This raised the MDLs further for these two samples.

The leak test compound was detected in all samples. According to the LARWQCB's Advisory-Active Soil Gas Investigations guidance document, compounds such as isopropanol may be used for leak checks. A sample is considered valid if a detection of  $10\text{ }\mu\text{g/L}$  (4,003 parts per billion volume (ppbv)) or less is observed. During the First Quarter 2004 sampling event, the only sample with an isopropanol concentration  $< 4,003\text{ ppbv}$  was VP3 at 12 fbg. All other samples failed the leak check, which made the results suspect.

### Second Quarter



On May 26, 2004, discrete depth sampling was attempted in vapor probes VP-1 through VP-3. Care was taken to use less isopropanol for the leak test and to tighten the hose clamps to the fullest extent with the goal of lowering MDLs. Soil vapor samples were not collected from VP-1 and VP-3 at 12 fbg due to the high groundwater elevation which submerged the screened interval at this depth. Purging was conducted at rates ranging from approximately 0.1 to 0.5 L/sec. Sampling was conducted at rates ranging from approximately 0.001 to 0.003 L/sec. Vapor samples were collected in Summa™ canisters after removing approximately three purge volumes from each sampling interval. TPHg vapors collected during this sampling event ranged from 7,400 to  $16,000\text{ }\mu\text{g/m}^3$ . Benzene was detected once, in VP-3 at 9 fbg at a concentration of  $2.3\text{ }\mu\text{g/m}^3$ . The MDLs for benzene ranged from 2.3 to  $2,700\text{ }\mu\text{g/m}^3$ . There were no actual detections of MTBE collected during this investigation, and the MDLs ranged from 10 to  $12,000\text{ }\mu\text{g/m}^3$ . TBA was detected in samples VP-1 at 3 fbg ( $11\text{ }\mu\text{g/m}^3$ ), VP-2 at 3 fbg ( $34\text{ }\mu\text{g/m}^3$ ), and VP2 at 9 fbg ( $46\text{ }\mu\text{g/m}^3$ ).


Three samples (VP-1 at 9 fbg and VP-2 at 9 and 12 fbg) did not pass the leak check in the Second Quarter 2004 and had high benzene detection limits, which resulted in increased MDLs for the VP-2 samples. These samples had concentrations of isopropanol that exceeded the acceptable concentration of  $< 4,003\text{ ppbv}$  of a valid leak check. Isopropanol concentrations in all other samples did not exceed 4,003 ppbv, and therefore passed the leak test.

### Third Quarter

On September 29 and 30, 2004, the three vapor probes were sampled. Purging was conducted at rates ranging from approximately 0.1 to 0.5 L/sec. Sampling was conducted at rates ranging from approximately 0.002 to 0.003 L/sec. Vapor samples were collected as described above. TPHg collected during this sampling event ranged from 4,400 to  $740,000\text{ }\mu\text{g/m}^3$ . Benzene was only detected in VP-3 at 12 fbg at a concentration of  $160\text{ }\mu\text{g/m}^3$ . The MDLs for benzene ranged from 2.6 to  $2,100\text{ }\mu\text{g/m}^3$ . There were no detections of MTBE collected during this investigation with MDLs ranging from  $< 12$  to  $< 9,700\text{ }\mu\text{g/m}^3$ . TBA was only detected in sample VP-2 at 3 fbg at a concentration of  $24\text{ }\mu\text{g/m}^3$ .

Four samples (VP-1 at 9 and 12 fbg, VP-2 12 fbg, and VP-3 at 12 fbg) failed the leak check during this event and had high benzene detection limits which resulted in increased MDLs for some samples. These samples had concentrations of isopropanol that exceeded the acceptable detection limit (4,003 ppbv) of a valid leak check. Isopropanol concentrations in all other samples did not exceed the acceptable detection limit, and therefore passed the leak check.

#### **Fourth Quarter**



Vapor samples were again collected on December 21 and 22, 2004. A new vapor sampling apparatus was used to sample soil vapor at the site during the Fourth Quarter 2004. Vapor probes VP-1 and 2 at 3 fbg were both sampled with the new apparatus on December 21, 2004 and then again with the old sampling apparatus on December 22, 2004 to compare the effectiveness of both devices. Purging was conducted at rates ranging from approximately 0.1 to 0.05 L/sec. Sampling was conducted at rates ranging from approximately 0.01 to 0.005 L/sec. Vapor samples were collected as described above. TPHg concentrations during this sampling event ranged from 1,200 to 29,000  $\mu\text{g}/\text{m}^3$ . Benzene was detected twice, in VP-2 at 12 fbg and VP-3 at 12 fbg at concentrations of 9.2 and 560  $\mu\text{g}/\text{m}^3$ , respectively, with benzene MDLs ranging from <2.2 to <3  $\mu\text{g}/\text{m}^3$ . MTBE was only detected in VP2 at 12 fbg at a concentration of 64  $\mu\text{g}/\text{m}^3$ . The MDLs for MTBE ranged from <9.8 to <21  $\mu\text{g}/\text{m}^3$ .

Every sample passed the leak check in the Fourth Quarter 2004, including those collected with the old sampling apparatus. Benzene and MTBE MDLs were normal.


#### **Leak Testing**

Information on leak testing is presented in Table 3 and also in Attachment E.

#### **Biodegradation**

Selected soil vapor samples have been periodically analyzed for oxygen, carbon dioxide, and methane to determine if biodegradation of hydrocarbons is occurring. Concentrations of these constituents in soil vapor samples are presented in Table 1.

## CONCLUSIONS



A comparison of soil vapor concentrations from Third Quarter 2003 through Fourth Quarter 2004 is presented in Attachment E as trend graphs showing concentrations of TPHg, benzene, and MTBE versus time for vapor probes VP-1 through VP-3. Any non-detected concentrations were represented as half of the MDL. Concentrations on these graphs represent samples collected with the old apparatus, except for those from Fourth Quarter 2004, which were collected with the new sampling apparatus. These graphs generally indicate that concentrations of all analyzed constituents increase with depth, as expected. Another trend indicated by the graphs is that soil vapor concentrations of TPHg have decreased by one order of magnitude or greater since Third Quarter 2003. Concentration trends of benzene and MTBE cannot be evaluated due to varying detection limits, except for VP-3 at 12 fbg, which has shown increases since Third Quarter 2003. TBA concentrations were detected for the first time in samples collected during the Second Quarter 2004, but there were no TBA detections during Fourth Quarter 2004.

Analysis of leak test compound concentrations indicates that the new sampling apparatus is an improvement over the old sampling device. Until further improvements are devised, Cambria will continue to use the new sampling apparatus to collect soil vapor samples.

Samples collected during the First Quarter 2004 show that soil vapor concentrations in all samples except for VP-2 at 9 fbg contain oxygen concentrations at much lower and carbon dioxide concentrations much higher levels than found in ambient air. When samples can be considered valid by passing leak checks, these concentrations suggest that aerobic biodegradation of hydrocarbons is occurring. Methane concentrations in soil vapor samples from VP-1 at 12 fbg and VP-2 at 12 fbg suggest that anaerobic biodegradation of hydrocarbons may be occurring in the oxygen-depleted saturated zone.

Table 2 presents a comparison of cumulative soil vapor analytic results to the Regional Water Quality Control Board-San Francisco Bay Region's (RWQCB-SFBR's) environmental screening levels (ESLs) for shallow ( $\leq 3$  meters below grade) soil gas used to evaluate indoor air impacts for the lowest residential exposure. The RWQCB-SFBR has no ESLs for deep ( $\geq 3$  meters below grade) soil gases. At this site, we have considered samples collected from 3 and 9 fbg to be shallow samples and therefore subject to the RWQCB-SFBR's ESLs. TPHg concentrations below the RWQCB-SFBR's ESLs are as follows: VP-1 at 3 fbg since Second Quarter 2004, VP-1 at 9 fbg for Fourth Quarter 2004 only, VP-2 at 3 and 9 fbg since Third Quarter 2004, VP-3 at 3 fbg since Second Quarter 2004, and VP-3 at 9 fbg since Third Quarter 2004. All valid shallow soil vapor sample concentrations of benzene and MTBE since Third Quarter 2003 are below the RWQCB-SFBR's ESLs.

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## CLOSING

Please contact Robert Foss at (510) 420-3348 with any questions or comments regarding this report.

Sincerely,

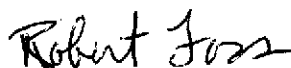
### Cambria Environmental Technology, Inc.



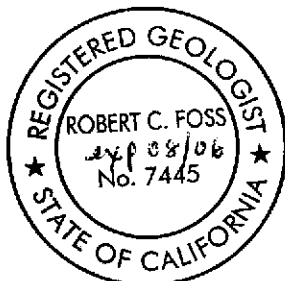
Charlotte Evans  
Staff Geologist



Sarah Owen  
Senior Staff Geologist



Robert Foss, P.G.  
Associate Geologist



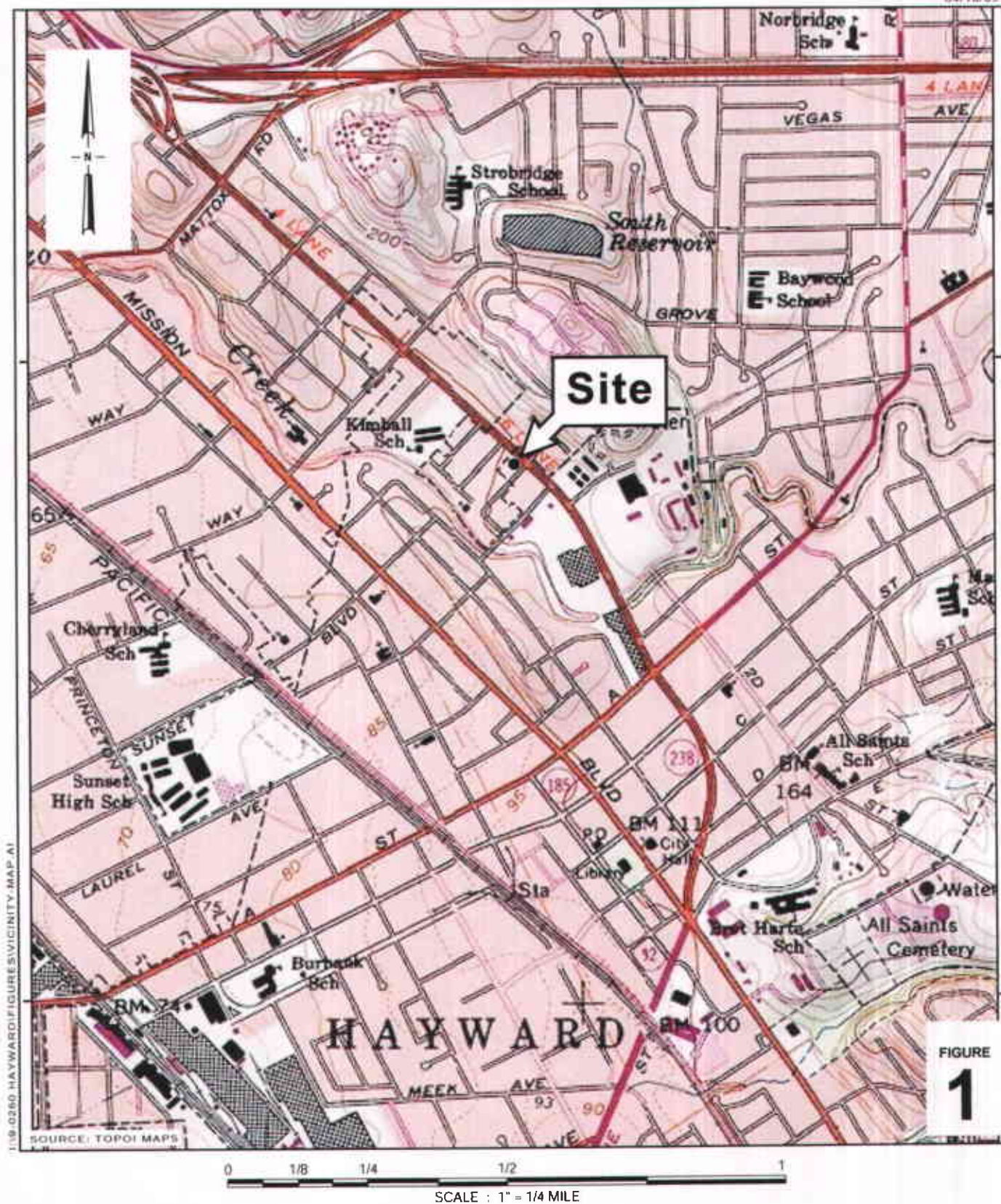
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Figures: 1 – Vicinity Map  
2 – Site Plan

Tables: 1 – Analytic Results for Soil Vapor  
2 – Analytic Results for Soil Vapor Compared to ESLs for Shallow Soil Gas  
3 – Leak Check Results

Attachments: A – Purge Volume Calculations  
B – Diagram of Old and New Sampling Apparatus  
C – Cumulative Laboratory Soil Vapor Analytic Results  
D – Soil Vapor Trend Graphs

cc: Mark Inglis, Chevron Environmental Management Company, P.O. Box 6012,  
San Ramon, CA 94583



**Former Chevron Station 9-0260**

21995 Foothill Boulevard

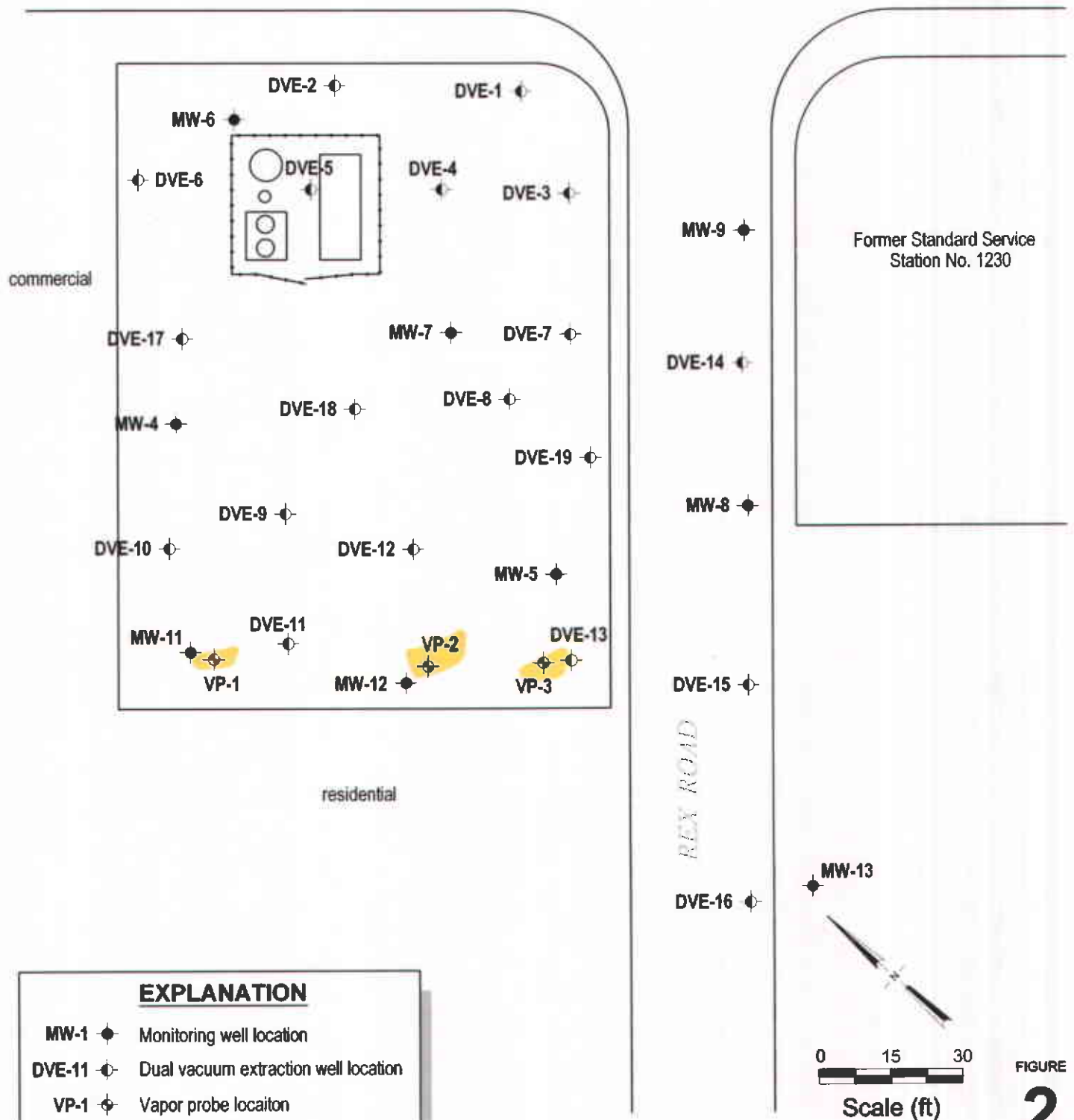
Hayward, California



C A M B R I A

**Vicinity Map**

## FOOTHILL BOULEVARD



Former Chevron Station 9-0260

21995 Foothill Boulevard

Hayward, California



C A M B R I A

Site Plan

**Table 1. Analytic Results for Soil Vapor - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward**

| Sample ID   | Sample Date | Probe Depth Interval (ftg) | Sample Collection Time (minutes) | TPHg           | B         | T          | E          | X <sup>1</sup> | MTBE <sup>2</sup> | TBA <sup>2</sup> | Oxygen (% volume) | Methane (% volume) | Carbon dioxide (% volume) |
|---|-------------|----------------------------|----------------------------------|----------------|-----------|------------|------------|----------------|-------------------|------------------|-------------------|--------------------|---------------------------|
| Concentrations reported in micrograms per cubic meter - µg/m <sup>3</sup> |             |                            |                                  |                |           |            |            |                |                   |                  |                   |                    |                           |
| VP-1^   | 8/26/03     | 3.0-4.5                    | 40                               | <b>60,000</b>  | <21       | <b>26</b>  | <28        | <28            | <94               | <79              | NA                | NA                 | NA                        |
| VP-1^   | 1/23/04     | 3.0-4.5                    | 22                               | <b>69,000</b>  | <39       | <46        | <54        | <54            | <180              | <150             | <b>8.0</b>        | <b>0.00021</b>     | <b>4.7</b>                |
| VP-1^   | 1/23/04     | 3.0-4.5*                   | 39                               | <b>11,000</b>  | <6.3      | <7.4       | <8.6       | <8.6           | <28               | <24              | <b>9.5</b>        | <b>0.00018</b>     | <b>4.4</b>                |
| VP-1^   | 5/26/04     | 3.0-4.5                    | 37                               | <b>7,400</b>   | <2.5      | <b>3.8</b> | <b>8.5</b> | <b>48°</b>     | <11               | <b>11</b>        | NA                | NA                 | NA                        |
| VP-1^   | 9/30/04     | 3.0-4.5                    | 39                               | <b>5,700</b>   | <5.0      | <6.0       | <6.9       | <6.9           | <23               | <19              | <b>19</b>         | NA                 | <b>3.8</b>                |
| VP-1^   | 12/22/04    | 3.0-4.5                    | 35                               | <b>1,900</b>   | <2.6      | <3.0       | <3.5       | <b>3.9</b>     | <12               | <9.8             | NA                | NA                 | NA                        |
| VP-1  | 12/21/04    | 3.0-4.5                    | 43                               | <b>1,600</b>   | <2.5      | <b>4.1</b> | <3.4       | <b>12.2°</b>   | <11               | <9.6             | NA                | NA                 | NA                        |
|   |             |                            |                                  |                |           |            |            |                |                   |                  |                   |                    |                           |
| VP-1^   | 8/26/03     | 8.0-9.5                    | 90                               | <b>81,000</b>  | <26       | <31        | <36        | <36            | <120              | <99              | NA                | NA                 | NA                        |
| VP-1^   | 1/23/04     | 8.0-9.5                    | 46                               | <b>18,000</b>  | <9.4      | <11        | <13        | <13            | <42               | <35              | <b>16</b>         | <b>0.00018</b>     | <b>2.6</b>                |
| VP-1^   | 1/23/04     | 8.0-9.5**                  |                                  | <b>18,000</b>  | <9.4      | <11        | <13        | <13            | <42               | <35              | NA                | NA                 | NA                        |
| VP-1^   | 5/26/04     | 8.0-9.5                    | 44                               | <b>15,000</b>  | <2.4      | <2.8       | <3.2       | <3.2           | <11               | <9.0             | NA                | NA                 | NA                        |
| VP-1^   | 9/30/04     | 8.0-9.5                    | 37                               | <b>14,000</b>  | <24       | <28        | <32        | <32            | <110              | <90              | <b>17</b>         | NA                 | <b>5.6</b>                |
| VP-1  | 12/21/04    | 8.0-9.5                    | 39                               | <b>3,800</b>   | <2.4      | <2.9       | <3.3       | <b>4.9</b>     | <11               | <9.2             | NA                | NA                 | NA                        |
|   |             |                            |                                  |                |           |            |            |                |                   |                  |                   |                    |                           |
| VP-1^   | 8/26/03     | 12.0-13.5                  | 120                              | <b>160,000</b> | <b>26</b> | <b>25</b>  | <16        | <b>17</b>      | <52               | <44              | NA                | NA                 | NA                        |
| VP-1^   | 1/23/04     | 12.0-13.5                  | 62                               | <b>75,000</b>  | <24       | <28        | <33        | <33            | <110              | <92              | <b>3.5</b>        | <b>0.0038</b>      | <b>6.0</b>                |
| VP-1^   | 5/26/04     | 12.0-13.5                  | NS                               | NS             | NS        | NS         | NS         | NS             | NS                | NS               | NS                | NS                 | NS                        |
| VP-1^   | 10/1/04     | 12.0-13.5                  | 66                               | <b>460,000</b> | <1700     | <2000      | <2300      | <2300          | <7700             | <6500            | <b>16</b>         | <b>0.012</b>       | <b>4.5</b>                |
| VP-1  | 12/21/04    | 12.0-13.5                  | 60                               | <b>1,600</b>   | <3.0      | <b>5.6</b> | <4.1       | <b>5.7</b>     | <14               | <16              | NA                | NA                 | NA                        |

**Table 1. Analytic Results for Soil Vapor** - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward

| Sample ID   | Sample Date | Probe Depth Interval (ftg) | Sample Collection Time (minutes) | TPIIg            | B          | T          | E     | X <sup>1</sup> | MTBE <sup>2</sup> | TBA <sup>1</sup> | Oxygen (% volume) | Methane (% volume) | Carbon dioxide (% volume) |
|---|-------------|----------------------------|----------------------------------|------------------|------------|------------|-------|----------------|-------------------|------------------|-------------------|--------------------|---------------------------|
| Concentrations reported in micrograms per cubic meter - µg/m <sup>3</sup> |             |                            |                                  |                  |            |            |       |                |                   |                  |                   |                    |                           |
| VP-2^   | 8/26/03     | 3.0-4.5                    | 35                               | <b>63,000***</b> | <11        | <b>160</b> | <15   | <b>18</b>      | <49               | <41              | NA                | NA                 | NA                        |
| VP-2^   | 1/23/04     | 3.0-4.5                    | 32                               | <b>13,000</b>    | <6.4       | <b>9.6</b> | <8.8  | <8.8           | <29               | <24              | <b>12</b>         | <0.00015           | <b>0.3</b>                |
| VP-2^   | 5/26/04     | 3.0-4.5                    | 41                               | <b>12,000</b>    | <2.6       | <b>3.1</b> | <3.5  | <b>6.3</b>     | <12               | <b>34</b>        | NA                | NA                 | NA                        |
| VP-2^   | 9/29/04     | 3.0-4.5                    | 41                               | <b>4,100</b>     | <4.4       | <b>7.6</b> | <5.9  | <5.9           | <20               | <b>24</b>        | <b>20</b>         | NA                 | <b>2.0</b>                |
| VP-2^   | 9/29/04     | 3.0-4.5**                  |                                  | <b>4,400</b>     | <4.4       | <b>8.2</b> | <5.9  | <5.9           | <20               | <b>24</b>        | NA                | NA                 | NA                        |
| VP-2^   | 12/22/04    | 3.0-4.5                    | 21                               | <b>340</b>       | <6.5       | <7.6       | <8.8  | <8.8           | <29               | <24              | NA                | NA                 | NA                        |
| VP-2  | 12/21/04    | 3.0-4.5                    | 34                               | <b>1,200</b>     | <2.5       | <2.9       | <3.4  | <3.4           | <11               | <9.4             | NA                | NA                 | NA                        |
|   |             |                            |                                  |                  |            |            |       |                |                   |                  |                   |                    |                           |
| VP-2^   | 8/26/03     | 8.0-9.5                    | 45                               | <b>66,000***</b> | <b>13</b>  | <b>77</b>  | <15   | <15            | <50               | <44              | NA                | NA                 | NA                        |
| VP-2^   | 1/26/04     | 8.0-9.5                    | 36                               | <b>47,000</b>    | <25        | <29        | <34   | <34            | <110              | <94              | <b>10</b>         | <0.00015           | <b>0.0</b>                |
| VP-2^   | 1/26/04     | 8.0-9.5**                  |                                  | NA               | NA         | NA         | NA    | NA             | NA                | NA               | <b>10</b>         | <0.00015           | <b>0.0</b>                |
| VP-2^   | 5/26/04     | 8.0-9.5                    | 36                               | <b>14,000</b>    | <2.8       | <b>3.7</b> | <3.9  | <3.9           | <13               | <b>46</b>        | NA                | NA                 | NA                        |
| VP-2^   | 5/26/04     | 8.0-9.5 <sup>Δ</sup>       | 29                               | <b>16,000</b>    | <130       | <150       | <170  | <170           | <580              | <490             | NA                | NA                 | NA                        |
| VP-2^   | 9/30/04     | 8.0-9.5                    | 35                               | <b>6,400</b>     | <3.5       | <4.1       | <4.8  | <4.8           | <16               | <13              | <b>19</b>         | <b>0.00018</b>     | <b>0.2</b>                |
| VP-2^   | 9/30/04     | 8.0-9.5 <sup>Δ</sup>       | 35                               | <b>6,200</b>     | <13        | <15        | <18   | <18            | <59               | <50              | <b>19</b>         | NA                 | <b>0.2</b>                |
| VP-2  | 12/21/04    | 8.0-9.5                    | 29                               | <b>2,400</b>     | <2.7       | <3.2       | <3.6  | <3.6           | <12               | <10              | NA                | NA                 | NA                        |
| VP-2  | 12/21/04    | 8.0-9.5 <sup>Δ</sup>       | 29                               | <b>1,800</b>     | <2.4       | <2.9       | <3.3  | <3.3           | <11               | <9.2             | NA                | NA                 | NA                        |
|   |             |                            |                                  |                  |            |            |       |                |                   |                  |                   |                    |                           |
| VP-2^   | 8/26/03     | 12.0-13.5                  | 35                               | <b>96,000***</b> | <b>14</b>  | <b>130</b> | <15   | <b>26</b>      | <b>95</b>         | <42              | NA                | NA                 | NA                        |
| VP-2^   | 1/26/04     | 12.0-13.5                  | 95                               | <b>2,500,000</b> | <1400      | <1600      | <1900 | <1900          | <6200             | <5200            | <b>17</b>         | <b>0.0011</b>      | <b>0.7</b>                |
| VP-2^   | 5/26/04     | 12.0-13.5                  | 90                               | <68,000          | <2700      | <3100      | <3600 | <3600          | <12000            | <10000           | NA                | NA                 | NA                        |
| VP-2^   | 10/1/04     | 12.0-13.5                  | 35                               | <b>360,000</b>   | <2100      | <2500      | <2900 | <2900          | <9700             | <8100            | <b>7.4</b>        | <b>0.0041</b>      | <b>5.4</b>                |
| VP-2^   | 10/1/04     | 12.0-13.5**                |                                  | NA               | NA         | NA         | NA    | NA             | NA                | NA               | <b>7.4</b>        | <b>0.0042</b>      | <b>5.4</b>                |
| VP-2  | 12/21/04    | 12.0-13.5                  | 70                               | <b>9,800</b>     | <b>9.2</b> | <b>5.4</b> | <3.4  | <b>5.8</b>     | <b>64</b>         | <9.6             | NA                | NA                 | NA                        |

**Table 1. Analytic Results for Soil Vapor** - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward

| Sample ID   | Sample Date | Probe Depth Interval (fbg) | Sample Collection Time (minutes) | TPH <sup>g</sup> | B          | T          | E         | X <sup>1</sup>        | MTBE <sup>2</sup> | TBA <sup>2</sup> | Oxygen (% volume) | Methane (% volume) | Carbon dioxide (% volume) |
|---|-------------|----------------------------|----------------------------------|------------------|------------|------------|-----------|-----------------------|-------------------|------------------|-------------------|--------------------|---------------------------|
| Concentrations reported in micrograms per cubic meter - µg/m <sup>3</sup> |             |                            |                                  |                  |            |            |           |                       |                   |                  |                   |                    |                           |
| VP-3 <sup>^</sup>   | 8/26/03     | 3.0-4.5                    | 37                               | <b>53,000</b>    | <10        | <b>28</b>  | <14       | <14                   | <45               | <38              | NA                | NA                 | NA                        |
| VP-3 <sup>^</sup>   | 1/26/04     | 3.0-4.5                    | 75                               | <b>22,000</b>    | <12        | <15        | <17       | <17                   | <57               | <48              | <b>12</b>         | <0.00016           | <b>0.1</b>                |
| VP-3 <sup>^</sup>   | 5/26/04     | 3.0-4.5                    | 34                               | <b>10,000</b>    | <2.7       | <3.1       | <3.6      | <b>5.1</b>            | <12               | <10              | NA                | NA                 | NA                        |
| VP-3 <sup>^</sup>   | 9/29/04     | 3.0-4.5                    | 33                               | <b>4,900</b>     | <2.6       | <b>27</b>  | <3.5      | <b>6.4</b>            | <12               | <9.8             | <b>21</b>         | NA                 | <b>1.2</b>                |
| VP-3  | 12/22/04    | 3.0-4.5                    | 50                               | <b>2,000</b>     | <2.2       | <b>4.3</b> | <3.0      | <b>7</b>              | <9.8              | <8.2             | NA                | NA                 | NA                        |
|   |             |                            |                                  |                  |            |            |           |                       |                   |                  |                   |                    |                           |
| VP-3 <sup>^</sup>   | 8/26/03     | 8.0-9.5                    | 35                               | <b>68,000</b>    | <b>17</b>  | <b>46</b>  | <14       | <14                   | <48               | <40              | NA                | NA                 | NA                        |
| VP-3 <sup>^</sup>   | 1/26/04     | 8.0-9.5                    | 31                               | <b>390,000</b>   | <260       | <300       | <350      | <350                  | <1200             | <970             | <b>9.5</b>        | <0.00016           | <b>0.9</b>                |
| VP-3 <sup>^</sup>   | 5/26/04     | 8.0-9.5                    | 40                               | <b>12,000</b>    | <b>2.3</b> | <b>18</b>  | <3.1      | <b>7.9</b>            | <10               | <8.7             | NA                | NA                 | NA                        |
| VP-3 <sup>^</sup>   | 5/26/04     | 8.0-9.5**                  |                                  | <b>12,000</b>    | <2.3       | <b>18</b>  | <3.1      | <b>7.6</b>            | <10               | <8.7             | NA                | NA                 | NA                        |
| VP-3 <sup>^</sup>   | 9/29/04     | 8.0-9.5                    | 35                               | <b>8,000</b>     | <2.6       | <b>15</b>  | <3.6      | <b>5</b>              | <12               | <9.9             | <b>18</b>         | <b>0.00018</b>     | <b>3.0</b>                |
| VP-3  | 12/22/04    | 8.0-9.5                    | 37                               | <b>3,200</b>     | <2.5       | <2.9       | <3.4      | <b>3.7</b>            | <11               | <9.4             | NA                | NA                 | NA                        |
|   |             |                            |                                  |                  |            |            |           |                       |                   |                  |                   |                    |                           |
| VP-3 <sup>^</sup>   | 8/26/03     | 12.0-13.5                  | 35                               | <b>140,000</b>   | <b>54</b>  | <b>27</b>  | <14       | <b>21</b>             | <46               | <39              | NA                | NA                 | NA                        |
| VP-3 <sup>^</sup>   | 1/26/04     | 12.0-13.5                  | 56                               | <b>11,000</b>    | <b>11</b>  | <b>24</b>  | <15       | <b>16</b>             | <49               | <41              | <b>14</b>         | <0.00067           | <b>1.0</b>                |
| VP-3 <sup>^</sup>   | 5/26/04     | 12.0-13.5                  | NS                               | NS               | NS         | NS         | NS        | NS                    | NS                | NS               | NS                | NS                 | NS                        |
| VP-3 <sup>^</sup>   | 9/29/04     | 12.0-13.5                  | 48                               | <b>740,000</b>   | <b>160</b> | <150       | <180      | <180                  | <590              | <500             | <b>13</b>         | <b>0.00055</b>     | <b>5.1</b>                |
| VP-3  | 12/22/04    | 12.0-13.5                  | 50                               | <b>29,000</b>    | <b>560</b> | <b>42</b>  | <b>24</b> | <b>39<sup>a</sup></b> | <21               | <17              | NA                | NA                 | NA                        |
| VP-3  | 12/22/04    | 12.0-13.5**                |                                  | <b>29,000</b>    | <b>560</b> | <b>41</b>  | <b>25</b> | <b>42<sup>a</sup></b> | <21               | <17              | NA                | NA                 | NA                        |

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) and oxygenates including methyl tertiary butyl ether (MTBE) by EPA T0-15.

Oxygen, methane, and carbon dioxide by ASTM D-1946M.

<x = Not detected above method detection limit.

fbg = Feet below grade.

NA = Not analyzed.

NS = Not sampled; screened interval submerged.

1 = Values for m,p-Xylenes only. No o-Xylenes detected in any sample.

2 = Except for MTBE, no other analyzed oxygenates were detected.

\* = Field duplicate collected immediately after original sample.

\*\* = Lab method duplicate.

\*\*\* = Values may contain up to an 11% error due to sampling system malfunction.

Δ = Field duplicate collected simultaneously with original sample.

— = 2-propanol exceeded valid leak check compound concentration.

^ = Results from using old sampling apparatus. As of 4Q04, new sampling apparatus used.

<sup>a</sup> = Values for all Xylenes

Table 2. Analytic Results for Soil Vapor Compared to ESLs for Shallow Soil Gas- Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward

| Sample ID  | Sample Date | Sample Depth (fbg) | TPHg    | TPHg ESL | B     | B ESL | T     | T ESL | E     | E ESL | X     | X ESL  | MTBE  | MTBE ESL |
|--|-------------|--------------------|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|----------|
| Concentrations reported in micrograms per cubic meter -µg/m <sup>3</sup> |             |                    |         |          |       |       |       |       |       |       |       |        |       |          |
| VP-1   | 8/26/03     | 3.0-4.5            | 60,000  | 10,000   | <21   | 84    | 26    | 8,300 | <28   | 2,200 | <28   | 21,000 | <94   | 9,400    |
| VP-1^  | 1/23/04     | 3.0-4.5            | 69,000* | 10,000   | <6.3  | 84    | <7.4  | 8,300 | <8.6  | 2,200 | <8.6  | 21,000 | <28   | 9,400    |
| VP-1^  | 5/26/04     | 3.0-4.5            | 7,400   | 10,000   | <2.5  | 84    | 3.8   | 8,300 | 8.5   | 2,200 | 48    | 21,000 | <11   | 9,400    |
| VP-1^  | 9/30/04     | 3.0-4.5            | 5,700   | 10,000   | <5.0  | 84    | <6.0  | 8,300 | <6.9  | 2,200 | <6.9  | 21,000 | <23   | 9,400    |
| VP-1^  | 12/22/04    | 3.0-4.5            | 1,900   | 10,000   | <2.6  | 84    | <3.0  | 8,300 | <3.5  | 2,200 | 3.9   | 21,000 | <12   | 9,400    |
| VP-1   | 12/21/04    | 3.0-4.5            | 1,600   | 10,000   | <2.5  | 84    | 4.1   | 8,300 | <3.4  | 2,200 | 12.2* | 21,000 | <11   | 9,400    |
| VP-1^  | 8/26/03     | 8.0-9.5            | 81,000  | 10,000   | <26   | 84    | <31   | 8,300 | <36   | 2,200 | <36   | 21,000 | <120  | 9,400    |
| VP-1^  | 1/23/04     | 8.0-9.5            | 18,000* | 10,000   | <9.4  | 84    | <11   | 8,300 | <13   | 2,200 | <13   | 21,000 | <42   | 9,400    |
| VP-1^  | 5/26/04     | 8.0-9.5            | 15,000  | 10,000   | <2.4  | 84    | <2.8  | 8,300 | <3.2  | 2,200 | <3.2  | 21,000 | <11   | 9,400    |
| VP-1^  | 9/30/04     | 8.0-9.5            | 14,000  | 10,000   | <24   | 84    | <28   | 8,300 | <32   | 2,200 | <32   | 21,000 | <110  | 9,400    |
| VP-1   | 12/21/04    | 8.0-9.5            | 3,800   | 10,000   | <2.4  | 84    | <2.9  | 8,300 | <3.3  | 2,200 | 4.9   | 21,000 | <11   | 9,400    |
| VP-1^  | 8/26/03     | 12.0-13.5          | 160,000 | NA       | 26    | NA    | 25    | NA    | <16   | NA    | 17    | NA     | <52   | NA       |
| VP-1^  | 1/23/04     | 12.0-13.5          | 75,000  | NA       | <24   | NA    | <28   | NA    | <33   | NA    | <33   | NA     | <110  | NA       |
| VP-1^  | 5/26/04     | 12.0-13.5          | NS      | NA       | NS    | NA    | NS    | NA    | NS    | NA    | NS    | NA     | NS    | NA       |
| VP-1^  | 10/1/04     | 12.0-13.5          | 460,000 | NA       | <1700 | NA    | <2000 | NA    | <2300 | NA    | <2300 | NA     | <7700 | NA       |
| VP-1   | 12/21/04    | 12.0-13.5          | 1,600   | NA       | <3.0  | NA    | 5.6   | NA    | <4.1  | NA    | 5.7   | NA     | <14   |          |
| VP-2^  | 8/26/03     | 3.0-4.5            | 63,000  | 10,000   | <11   | 84    | 160   | 8,300 | <15   | 2,200 | 18    | 21,000 | <49   | 9,400    |
| VP-2^  | 1/23/04     | 3.0-4.5            | 13,000  | 10,000   | <6.4  | 84    | 9.6   | 8,300 | <8.8  | 2,200 | <8.8  | 21,000 | <29   | 9,400    |
| VP-2^  | 5/26/04     | 3.0-4.5            | 12,000  | 10,000   | <2.6  | 84    | 3.1   | 8,300 | <3.5  | 2,200 | 6.3   | 21,000 | <12   | 9,400    |
| VP-2^  | 9/29/04     | 3.0-4.5            | 4,100   | 10,000   | <4.4  | 84    | 7.6   | 8,300 | <5.9  | 2,200 | <5.9  | 21,000 | <20   | 9,400    |
| VP-2^  | 12/22/04    | 3.0-4.5            | 340     | 10,000   | <6.5  | 84    | <7.6  | 8,300 | <8.8  | 2,200 | <8.8  | 21,000 | <29   | 9,400    |
| VP-2   | 12/21/04    | 3.0-4.5            | 1,200   | 10,000   | <2.5  | 84    | <2.9  | 8,300 | <3.4  | 2,200 | <3.4  | 21,000 | <11   | 9,400    |
| VP-2^  | 8/26/03     | 8.0-9.5            | 66,000  | 10,000   | 13    | 84    | 77    | NA    | <15   |       | <15   | NA     | <50   | 9,400    |
| VP-2^  | 1/26/04     | 8.0-9.5            | 47,000  | 10,000   | <25   | 84    | <29   | NA    | <34   | NA    | <34   | NA     | <110  | 9,400    |
| VP-2^  | 5/26/04     | 8.0-9.5            | 16,000* | 10,000   | <2.8  | 84    | 3.7   | NA    | <3.9  | NA    | <3.9  | NA     | <13   | 9,400    |
| VP-2^  | 9/30/04     | 8.0-9.5            | 6,400   | 10,000   | <3.5  | 84    | <4.1  | NA    | <4.8  | NA    | <4.8  | NA     | <16   | 9,400    |
| VP-2   | 12/21/04    | 8.0-9.5            | 2,400   | 10,000   | <2.7  | 84    | <3.2  | NA    | <3.6  | NA    | <3.6  | NA     | <12   | 9,400    |

Table 2. Analytic Results for Soil Vapor Compared to ESLs for Shallow Soil Gas- Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward

| Sample ID  | Sample Date | Sample Depth (fbg) | TPHg             | TPHg ESL | B          | B ESL | T          | T ESL | E         | E ESL | X          | X ESL  | MTBE      | MTBE ESL |
|--|-------------|--------------------|------------------|----------|------------|-------|------------|-------|-----------|-------|------------|--------|-----------|----------|
| Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$ |             |                    |                  |          |            |       |            |       |           |       |            |        |           |          |
| VP-2^  | 8/26/03     | 12.0-13.5          | <b>96,000</b>    | NA       | <b>14</b>  | NA    | <b>130</b> | NA    | <15       | NA    | <b>26</b>  | NA     | <b>95</b> | NA       |
| VP-2^  | 1/26/04     | 12.0-13.5          | <b>2,500,000</b> | NA       | <1400      | NA    | <1600      | NA    | <1900     | NA    | <1900      | NA     | <6200     | NA       |
| VP-2^  | 5/26/04     | 12.0-13.5          | <68,000          | NA       | <2700      | NA    | <3100      | NA    | <3600     | NA    | <3600      | NA     | <12000    | NA       |
| VP-2^  | 10/1/04     | 12.0-13.5          | <b>360,000</b>   | NA       | <2100      | NA    | <2500      | NA    | <2900     | NA    | <2900      | NA     | <9700     | NA       |
| VP-2   | 12/21/04    | 12.0-13.5          | <b>9,800</b>     | NA       | <b>9.2</b> | NA    | <b>5.4</b> | NA    | <3.4      | NA    | <b>5.8</b> | NA     | <b>64</b> | NA       |
|  |             |                    |                  |          |            |       |            |       |           |       |            |        |           |          |
| VP-3^  | 8/26/03     | 3.0-4.5            | <b>53,000</b>    | 10,000   | <10        | 84    | <b>28</b>  | 8,300 | <14       | 2,200 | <14        | 21,000 | <45       | 9,400    |
| VP-3^  | 1/26/04     | 3.0-4.5            | <b>22,000</b>    | 10,000   | <12        | 84    | <15        | 8,300 | <17       | 2,200 | <17        | 21,000 | <57       | 9,400    |
| VP-3^  | 5/26/04     | 3.0-4.5            | <b>10,000</b>    | 10,000   | <2.7       | 84    | <3.1       | 8,300 | <3.6      | 2,200 | <b>5.1</b> | 21,000 | <12       | 9,400    |
| VP-3^  | 9/29/04     | 3.0-4.5            | <b>4,900</b>     | 10,000   | <2.6       | 84    | <b>27</b>  | 8,300 | <3.5      | 2,200 | <b>6.4</b> | 21,000 | <12       | 9,400    |
| VP-3   | 12/22/04    | 3.0-4.5            | <b>2,000</b>     | 10,000   | <2.2       | 84    | <b>4.3</b> | 8,300 | <3.0      | 2,200 | <b>7</b>   | 21,000 | <9.8      | 9,400    |
|  |             |                    |                  |          |            |       |            |       |           |       |            |        |           |          |
| VP-3^  | 8/26/03     | 8.0-9.5            | <b>68,000</b>    | 10,000   | <b>17</b>  | 84    | <b>46</b>  | NA    | <14       | NA    | <14        | NA     | <48       | 9,400    |
| VP-3^  | 1/26/04     | 8.0-9.5            | <b>390,000</b>   | 10,000   | <260       | 84    | <300       | NA    | <350      | NA    | <350       | NA     | <1200     | 9,400    |
| VP-3^  | 5/26/04     | 8.0-9.5            | <b>12,000*</b>   | 10,000   | <b>2.3</b> | 84    | <b>18</b>  | NA    | <3.1      | NA    | <b>7.9</b> | NA     | <10       | 9,400    |
| VP-3^  | 9/29/04     | 8.0-9.5            | <b>8,000</b>     | 10,000   | <2.6       | 84    | <b>15</b>  | NA    | <3.6      | NA    | <b>5</b>   | NA     | <12       | 9,400    |
| VP-3   | 12/22/04    | 8.0-9.5            | <b>3,200</b>     | 10,000   | <2.5       | 84    | <2.9       | NA    | <3.4      | NA    | <b>3.7</b> | NA     | <11       | 9,400    |
|  |             |                    |                  |          |            |       |            |       |           |       |            |        |           |          |
| VP-3^  | 8/26/03     | 12.0-13.5          | <b>140,000</b>   | NA       | <b>54</b>  | NA    | <b>27</b>  | NA    | <14       | NA    | <b>21</b>  | NA     | <46       | NA       |
| VP-3^  | 1/26/04     | 12.0-13.5          | <b>11,000</b>    | NA       | <b>11</b>  | NA    | <b>24</b>  | NA    | <15       | NA    | <b>16</b>  | NA     | <49       | NA       |
| VP-3^  | 5/26/04     | 12.0-13.5          | NS               | NA       | NS         | NA    | NS         | NA    | NS        | NA    | NS         | NA     | NS        | NA       |
| VP-3^  | 9/29/04     | 12.0-13.5          | <b>740,000</b>   | NA       | <b>160</b> | NA    | <150       | NA    | <180      | NA    | <180       | NA     | <590      | NA       |
| VP-3   | 12/22/04    | 12.0-13.5          | <b>29,000</b>    | NA       | <b>560</b> | NA    | <b>42</b>  | NA    | <b>24</b> | NA    | <b>39^</b> | NA     | <21       | NA       |

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) and oxygenates including methyl tertiary butyl ether (MTBE) by EPA T0-15.

<x = Not detected above method detection limit.

fbg = Feet below grade.

NA = Not analyzed.

NS = Not sampled; screened interval submerged.

\* = Sample results of originals and duplicates have been composited so that the highest TPHg concentration and the lowest benzene detection limit are seen together.

^ = Results from using old sampling apparatus. As of 4Q04, new sampling apparatus used.

^ = Values for all Xylenes

ESL = Environmental screening level.

ESL values are for shallow (<5 fbg) soil gas for evaluation of indoor air impacts for the lowest residential exposure. Assumes very permeable material.

ESL values for deep (>5 fbg) soil gas for evaluation of indoor air impacts should be carried out on a site-specific basis.

All ESL values and informatin taken from the RWQCB-SFBR's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* dated July 2003.

# CAMBRIA

**Table 3. Leak Check Results - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward**

| Sample ID   | Sample Date | Probe Depth Interval (ftg) | Sample Collection Time (minutes) | TPHg           | 2-propanol     | Pass/Fail | B         | T          | E          | X <sup>1</sup>          | MTBE <sup>2</sup> | TBA <sup>2</sup> |
|---|-------------|----------------------------|----------------------------------|----------------|----------------|-----------|-----------|------------|------------|-------------------------|-------------------|------------------|
| Concentrations reported in micrograms per cubic meter - µg/m <sup>3</sup> |             |                            |                                  |                |                |           |           |            |            |                         |                   |                  |
| VP-1^   | 8/26/03     | 3.0-4.5                    | 40                               | <b>60,000</b>  | NS             | NS        | <21       | <b>26</b>  | <28        | <28                     | <94               | <79              |
| VP-1^   | 1/23/04     | 3.0-4.5                    | 22                               | <b>69,000</b>  | <b>110,000</b> | <b>F</b>  | <39       | <46        | <54        | <54                     | <180              | <150             |
| VP-1^   | 1/23/04     | 3.0-4.5*                   | 39                               | <b>11,000</b>  | <b>13,000</b>  | <b>F</b>  | <6.3      | <7.4       | <8.6       | <8.6                    | <28               | <24              |
| VP-1^   | 5/26/04     | 3.0-4.5                    | 37                               | <b>7,400</b>   | <b>34</b>      | <b>P</b>  | <2.5      | <b>3.8</b> | <b>8.5</b> | <b>48<sup>a</sup></b>   | <11               | <b>11</b>        |
| VP-1^   | 9/30/04     | 3.0-4.5                    | 39                               | <b>5,700</b>   | <b>1,900</b>   | <b>P</b>  | <5.0      | <6.0       | <6.9       | <6.9                    | <23               | <19              |
| VP-1^   | 12/22/04    | 3.0-4.5                    | 35                               | <b>1,900</b>   | <b>3,900</b>   | <b>P</b>  | <2.6      | <3.0       | <3.5       | <b>3.9</b>              | <12               | <9.8             |
| VP-1  | 12/21/04    | 3.0-4.5                    | 43                               | <b>1,600</b>   | <7.8           | <b>P</b>  | <2.5      | <b>4.1</b> | <3.4       | <b>12.2<sup>a</sup></b> | <11               | <9.6             |
| VP-1^   | 8/26/03     | 8.0-9.5                    | 90                               | <b>81,000</b>  | NS             | NS        | <26       | <31        | <36        | <36                     | <120              | <99              |
| VP-1^   | 1/23/04     | 8.0-9.5                    | 46                               | <b>18,000</b>  | <b>18,000</b>  | <b>F</b>  | <9.4      | <11        | <13        | <13                     | <42               | <35              |
| VP-1^   | 1/23/04     | 8.0-9.5**                  |                                  | <b>18,000</b>  | NS             | NS        | <9.4      | <11        | <13        | <13                     | <42               | <35              |
| VP-1^   | 5/26/04     | 8.0-9.5                    | 44                               | <b>15,000</b>  | <b>1,300</b>   | <b>F</b>  | <2.4      | <2.8       | <3.2       | <3.2                    | <11               | <9.0             |
| VP-1^   | 10/1/04     | 8.0-9.5                    | 37                               | <b>14,000</b>  | <b>13,000</b>  | <b>F</b>  | <24       | <28        | <32        | <32                     | <110              | <90              |
| VP-1  | 12/21/04    | 8.0-9.5                    | 39                               | <b>3,800</b>   | <7.5           | <b>P</b>  | <2.4      | <2.9       | <3.3       | <b>4.9</b>              | <11               | <9.2             |
| VP-1^   | 8/26/03     | 12.0-13.5                  | 120                              | <b>160,000</b> | NS             | NS        | <b>26</b> | <b>25</b>  | <16        | <b>17</b>               | <52               | <44              |
| VP-1^   | 1/23/04     | 12.0-13.5                  | 62                               | <b>75,000</b>  | <b>110,000</b> | <b>F</b>  | <24       | <28        | <33        | <33                     | <110              | <92              |
| VP-1^   | 5/26/04     | 12.0-13.5                  | NS                               | NS             | NS             | NS        | NS        | NS         | NS         | NS                      | NS                | NS               |
| VP-1^   | 10/1/04     | 12.0-13.5                  | 66                               | <b>460,000</b> | <b>660,000</b> | <b>F</b>  | <1700     | <2000      | <2300      | <2300                   | <7700             | <6500            |
| VP-1  | 12/21/04    | 12.0-13.5                  | 60                               | <b>1,600</b>   | <b>170</b>     | <b>P</b>  | <3.0      | <b>5.6</b> | <4.1       | <b>5.7</b>              | <14               | <16              |

# CAMBRIA

**Table 3. Leak Check Results - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward**

| Sample ID   | Sample Date | Probe Depth Interval (ftg) | Sample Collection Time (minutes) | TPH <sup>1</sup> g | 2-propanol       | Pass/Fail | B          | T          | E     | X <sup>1</sup> | MTBE <sup>2</sup> | TBA <sup>2</sup> |
|---|-------------|----------------------------|----------------------------------|--------------------|------------------|-----------|------------|------------|-------|----------------|-------------------|------------------|
| Concentrations reported in micrograms per cubic meter - µg/m <sup>3</sup> |             |                            |                                  |                    |                  |           |            |            |       |                |                   |                  |
| VP-2^   | 8/26/03     | 3.0-4.5                    | 35                               | <b>63,000***</b>   | NS               | NS        | <11        | <b>160</b> | <15   | <b>18</b>      | <49               | <41              |
| VP-2^   | 1/23/04     | 3.0-4.5                    | 32                               | <b>13,000</b>      | <b>20,000</b>    | <b>F</b>  | <6.4       | <b>9.6</b> | <8.8  | <8.8           | <29               | <24              |
| VP-2^   | 5/26/04     | 3.0-4.5                    | 41                               | <b>12,000</b>      | <b>49</b>        | <b>P</b>  | <2.6       | <b>3.1</b> | <3.5  | <b>6.3</b>     | <12               | <b>34</b>        |
| VP-2^   | 9/29/04     | 3.0-4.5                    | 41                               | <b>4,100</b>       | <b>1,900</b>     | <b>P</b>  | <4.4       | <b>7.6</b> | <5.9  | <5.9           | <20               | <b>24</b>        |
| VP-2^   | 9/29/04     | 3.0-4.5**                  |                                  | <b>4,400</b>       | <b>2,000</b>     | <b>P</b>  | <4.4       | <b>8.2</b> | <5.9  | <5.9           | <20               | <b>24</b>        |
| VP-2^   | 12/22/04    | 3.0-4.5                    | 21                               | <b>340</b>         | <b>4,200</b>     | <b>P</b>  | <6.5       | <7.6       | <8.8  | <8.8           | <29               | <24              |
| VP-2  | 12/21/04    | 3.0-4.5                    | 34                               | <b>1,200</b>       | <7.6             | <b>P</b>  | <2.5       | <2.9       | <3.4  | <3.4           | <11               | <9.4             |
| VP-2^   | 8/26/03     | 8.0-9.5                    | 45                               | <b>66,000***</b>   | NS               | NS        | <b>13</b>  | <b>77</b>  | <15   | <15            | <50               | <44              |
| VP-2^   | 1/26/04     | 8.0-9.5                    | 36                               | <b>47,000</b>      | <b>78,000</b>    | <b>F</b>  | <25        | <29        | <34   | <34            | <110              | <94              |
| VP-2^   | 1/26/04     | 8.0-9.5**                  |                                  | NA                 | NS               | NS        | NA         | NA         | NA    | NA             | NA                | NA               |
| VP-2^   | 5/26/04     | 8.0-9.5                    | 36                               | <b>14,000</b>      | NS               | NS        | <2.8       | <b>3.7</b> | <3.9  | <3.9           | <13               | <b>46</b>        |
| VP-2^   | 5/26/04     | 8.0-9.5 <sup>d</sup>       | 29                               | <b>16,000</b>      | <b>54,000</b>    | <b>F</b>  | <130       | <150       | <170  | <170           | <580              | <490             |
| VP-2^   | 9/30/04     | 8.0-9.5                    | 35                               | <b>6,400</b>       | <b>2,000</b>     | <b>P</b>  | <3.5       | <4.1       | <4.8  | <4.8           | <16               | <13              |
| VP-2^   | 9/30/04     | 8.0-9.5 <sup>d</sup>       | 35                               | <b>6,200</b>       | <b>2,000</b>     | <b>P</b>  | <13        | <15        | <18   | <18            | <59               | <50              |
| VP-2  | 12/21/04    | 8.0-9.5                    | 29                               | <b>2,400</b>       | <b>8.6</b>       | <b>P</b>  | <2.7       | <3.2       | <3.6  | <3.6           | <12               | <10              |
| VP-2  | 12/21/04    | 8.0-9.5 <sup>d</sup>       | 29                               | <b>1,800</b>       | <7.5             | <b>P</b>  | <2.4       | <2.9       | <3.3  | <3.3           | <11               | <9.2             |
| VP-2^   | 8/26/03     | 12.0-13.5                  | 35                               | <b>96,000***</b>   | NS               | NS        | <b>14</b>  | <b>130</b> | <15   | <b>26</b>      | <b>95</b>         | <42              |
| VP-2^   | 1/26/04     | 12.0-13.5                  | 95                               | <b>2,500,000</b>   | <b>5,200,000</b> | <b>F</b>  | <1400      | <1600      | <1900 | <1900          | <6200             | <5200            |
| VP-2^   | 5/26/04     | 12.0-13.5                  | 90                               | <68,000            | <b>2,200,000</b> | <b>F</b>  | <2700      | <3100      | <3600 | <3600          | <12000            | <10000           |
| VP-2^   | 10/1/04     | 12.0-13.5                  | 35                               | <b>360,000</b>     | <b>430,000</b>   | <b>F</b>  | <2100      | <2500      | <2900 | <2900          | <9700             | <8100            |
| VP-2  | 12/21/04    | 12.0-13.5                  | 70                               | <b>9,800</b>       | <b>280</b>       | <b>P</b>  | <b>9.2</b> | <b>5.4</b> | <3.4  | <b>5.8</b>     | <b>64</b>         | <9.6             |
| VP-3^   | 8/26/03     | 3.0-4.5                    | 37                               | <b>53,000</b>      | NS               | NS        | <10        | <b>28</b>  | <14   | <14            | <45               | <38              |
| VP-3^   | 1/26/04     | 3.0-4.5                    | 75                               | <b>22,000</b>      | <b>31,000</b>    | <b>F</b>  | <12        | <15        | <17   | <17            | <57               | <48              |
| VP-3^   | 5/26/04     | 3.0-4.5                    | 34                               | <b>10,000</b>      | <b>10</b>        | <b>P</b>  | <2.7       | <3.1       | <3.6  | <b>5.1</b>     | <12               | <10              |
| VP-3^   | 9/29/04     | 3.0-4.5                    | 33                               | <b>4,900</b>       | <b>130</b>       | <b>P</b>  | <2.6       | <b>27</b>  | <3.5  | <b>6.4</b>     | <12               | <9.8             |
| VP-3  | 12/22/04    | 3.0-4.5                    | 50                               | <b>2,000</b>       | <b>6.6"</b>      | <b>P</b>  | <2.2       | <b>4.3</b> | <3.0  | <b>7</b>       | <9.8              | <8.2             |

# CAMBRIA

**Table 3. Leak Check Results - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward**

| Sample ID   | Sample Date | Probe Depth Interval (fbg) | Sample Collection Time (minutes) | TPH <sup>g</sup> | 2-propanol       | Pass/Fail | B          | T         | E         | X <sup>1</sup>        | MTBE <sup>2</sup> | TBA <sup>2</sup> |
|---|-------------|----------------------------|----------------------------------|------------------|------------------|-----------|------------|-----------|-----------|-----------------------|-------------------|------------------|
| Concentrations reported in micrograms per cubic meter - µg/m <sup>3</sup> |             |                            |                                  |                  |                  |           |            |           |           |                       |                   |                  |
| VP-3 <sup>^</sup>   | 8/26/03     | 8.0-9.5                    | 35                               | <b>68,000</b>    | NS               | NS        | <b>17</b>  | <b>46</b> | <14       | <14                   | <48               | <40              |
| VP-3 <sup>^</sup>   | 1/26/04     | 8.0-9.5                    | 31                               | <b>390,000</b>   | <b>820,000</b>   | <b>F</b>  | <260       | <300      | <350      | <350                  | <1200             | <970             |
| VP-3 <sup>^</sup>   | 5/26/04     | 8.0-9.5                    | 40                               | <b>12,000</b>    | <b>19</b>        | <b>P</b>  | <b>2.3</b> | <b>18</b> | <3.1      | <b>7.9</b>            | <10               | <8.7             |
| VP-3 <sup>^</sup>   | 5/26/04     | 8.0-9.5**                  |                                  | <b>12,000</b>    | <b>20</b>        | <b>P</b>  | <2.3       | <b>18</b> | <3.1      | <b>7.6</b>            | <10               | <8.7             |
| VP-3 <sup>^</sup>   | 9/29/04     | 8.0-9.5                    | 35                               | <b>8,000</b>     | <b>38</b>        | <b>P</b>  | <2.6       | <b>15</b> | <3.6      | <b>5</b>              | <12               | <9.9             |
| VP-3  | 12/22/04    | 8.0-9.5                    | 37                               | <b>3,200</b>     | <7.6             | <b>P</b>  | <2.5       | <2.9      | <3.4      | <b>3.7</b>            | <11               | <9.4             |
| VP-3 <sup>^</sup>   | 8/26/03     | 12.0-13.5                  | 35                               | <b>140,000</b>   | NS               | NS        | <b>54</b>  | <b>27</b> | <14       | <b>21</b>             | <46               | <39              |
| VP-3 <sup>^</sup>   | 1/26/04     | 12.0-13.5                  | 56                               | <b>11,000</b>    | <33              | <b>P</b>  | <b>11</b>  | <b>24</b> | <15       | <b>16</b>             | <49               | <41              |
| VP-3 <sup>^</sup>   | 5/26/04     | 12.0-13.5                  | NS                               | NS               | NS               | NS        | NS         | NS        | NS        | NS                    | NS                | NS               |
| VP-3 <sup>^</sup>   | 9/29/04     | 12.0-13.5                  | 48                               | <b>740,000</b>   | > <b>190,000</b> | <b>F</b>  | <b>160</b> | <150      | <180      | <180                  | <590              | <500             |
| VP-3  | 12/22/04    | 12.0-13.5                  | 50                               | <b>29,000</b>    | <b>30</b>        | <b>P</b>  | <b>560</b> | <b>42</b> | <b>24</b> | <b>39<sup>a</sup></b> | <21               | <17              |
| VP-3  | 12/22/04    | 12.0-13.5**                |                                  | <b>29,000</b>    | <b>30</b>        | <b>P</b>  | <b>560</b> | <b>41</b> | <b>25</b> | <b>42<sup>a</sup></b> | <21               | <17              |

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPH<sup>g</sup>), benzene, toluene, ethylbenzene and xylenes (BTEX) and oxygenates including methyl tertiary butyl ether (MTBE) by EPA T0-15.

<x = Not detected above method detection limit.

fbg = Feet below grade.

NA = Not analyzed.

NS = Not sampled; screened interval submerged.

1 = Values for m,p-Xylenes only. No o-Xylenes detected in any sample.

2 = Except for MTBE, no other analyzed oxygenates were detected.

\* = Field duplicate collected immediately after original sample.

\*\* = Lab method duplicate.

\*\*\* = Values may contain up to an 11% error due to sampling system malfunction.

Δ = Field duplicate collected simultaneously with original sample.

— = 2-propanol exceeded valid leak check compound concentration.

" = Estimated Value.

^ = Sampled with old sampling apparatus.

## **ATTACHMENT A**

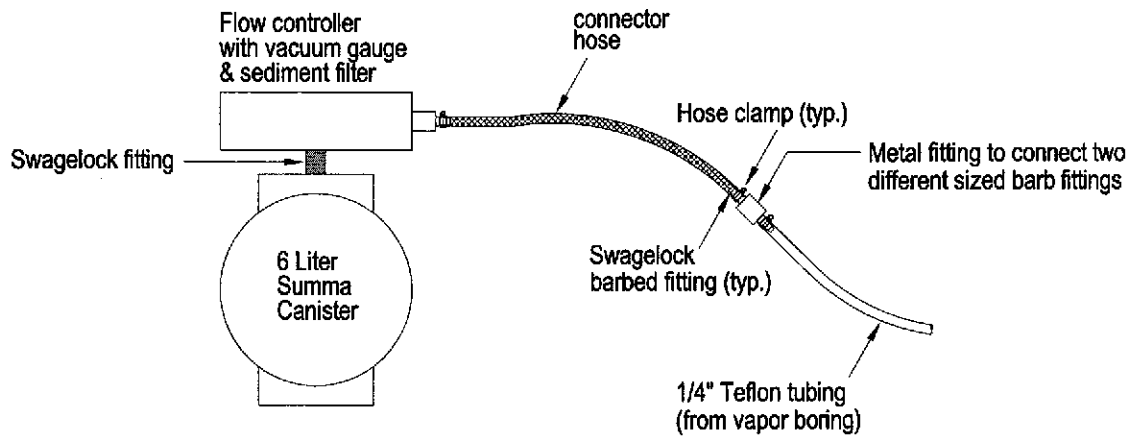
### **Purge Volume Calculations**

| <b>Purge Volume Calculations</b>                        | <b>12 fbg</b>                                    | <b>9 fbg</b>                                     | <b>3 fbg</b>                                     |
|---|--|--|--|
| Value of Pi   | 3.1416   | 3.1416   | 3.1416   |
| Volume of Tubing<br>(Area of a Circle x Length)         | 9.032 cubic inches                               | 6.676 cubic inches                               | 4.271 cubic inches                               |
| Conversion Factor<br>for Cubic Inches<br>to Liters      | 0.01639  | 0.01639  | 0.01639  |
| Purge Volume  | 0.148 liters                                     | 0.109 liters                                     | 0.070 liters                                     |
| Summa Canister<br>Volume                                | 6 liters   | 6 liters   | 6 liters   |
| Flow Meter<br>Setting                                   | 6 Liters/30<br>Minutes = 0.2000<br>liters/minute | 6 Liters/30<br>Minutes = 0.2000<br>liters/minute | 6 Liters/30<br>Minutes = 0.2000<br>liters/minute |
| Convert to Liters<br>Per Second                         | 0.2000 L/min x 1<br>min/60 sec =<br>0.0033 L/sec | 0.2000 L/min x 1<br>min/60 sec =<br>0.0033 L/sec | 0.2000 L/min x 1<br>min/60 sec =<br>0.0033 L/sec |
| Purge Time<br>(Purge<br>Volume/Flow<br>Meter Flow Rate) | 0.148 L/ 0.0033<br>L/sec<br>= 44.85 sec          | 0.109 L/ 0.0033<br>L/sec<br>= 33.03 sec          | 0.070 L/ 0.0033<br>L/sec<br>= 21.21 sec          |

## **ATTACHMENT B**

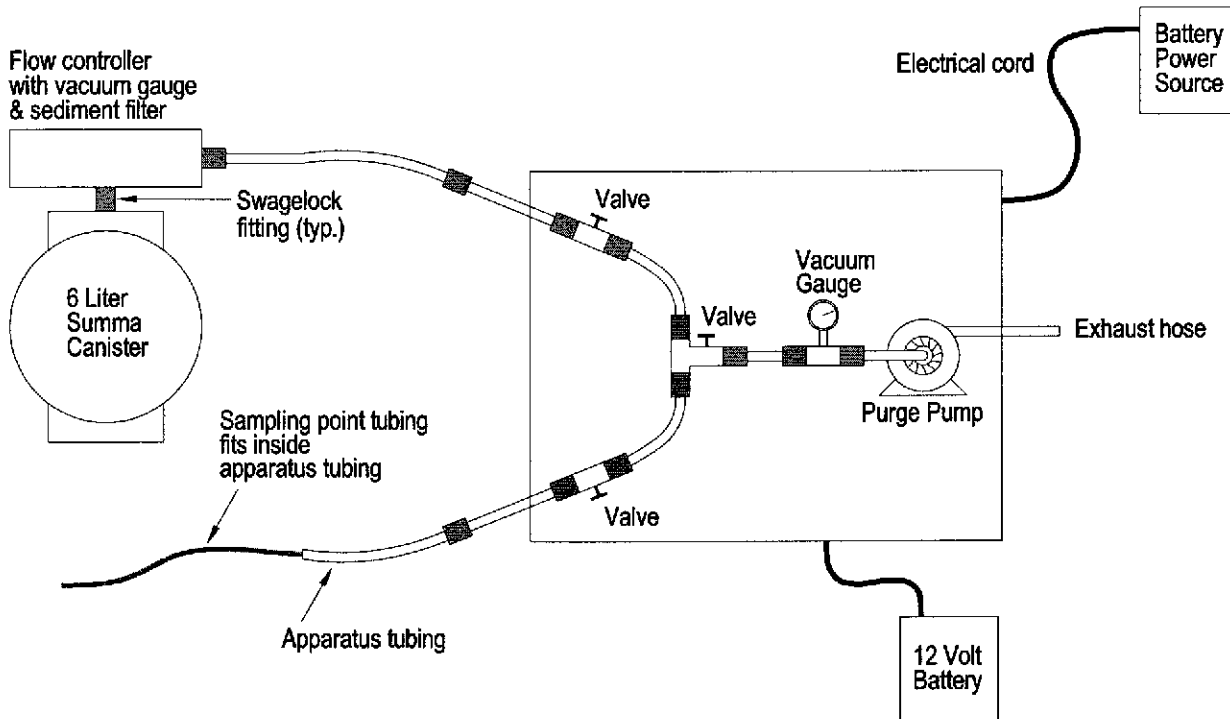
### **Diagram of Old and New Sampling Apparatus**

## Former Sampling Point Apparatus Diagram



Schematic Not to Scale

## New Sampling Point Apparatus Diagram



Schematic Not to Scale

FIGURE

1

Former Chevron Station 9-0260

21995 Foothill Boulevard

Hayward, California



C A M B R I A

Vapor Sampling  
Apparatus Diagram

## **ATTACHMENT C**

### **Cumulative Laboratory Soil Vapor Analytic Results**



# **AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0308547**

## Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Mr. Greg Bentley<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 | <b>BILL TO:</b>  | Mr. Greg Bentley<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 |
| <b>PHONE:</b>          | 510-420-3346  | <b>P.O. #</b>    |   |
| <b>FAX:</b>            | 510-420-9170  | <b>PROJECT #</b> | 310-1915 9-0260   |
| <b>DATE RECEIVED:</b>  | 08/27/03  | <b>CONTACT:</b>  | Kelly Buettner  |
| <b>DATE COMPLETED:</b> | 09/12/03  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u>        | <u>TEST</u>    | <u>RECEIPT<br/>VAC./PRES.</u> |
|-------------------|--------------------|----------------|-------------------------------|
| 01A               | VP-1@3'            | Modified TO-15 | 5.0 "Hg                       |
| 02A               | VP-2@3'            | Modified TO-15 | 6.0 "Hg                       |
| 03A               | VP-3@3'            | Modified TO-15 | 4.0 "Hg                       |
| 04A               | VP-1@8'            | Modified TO-15 | 5.0 "Hg                       |
| 05A               | VP-2@8'            | Modified TO-15 | 6.5 "Hg                       |
| 06A               | VP-3@8'            | Modified TO-15 | 5.5 "Hg                       |
| 07A               | VP-1@12'           | Modified TO-15 | 7.5 "Hg                       |
| 08A               | VP-2@12'           | Modified TO-15 | 6.5 "Hg                       |
| 09A               | VP-3@12'           | Modified TO-15 | 4.5 "Hg                       |
| 09AA              | VP-3@12' Duplicate | Modified TO-15 | 4.5 "Hg                       |
| 10A               | Lab Blank          | Modified TO-15 | NA                            |
| 10B               | Lab Blank          | Modified TO-15 | NA                            |
| 10C               | Lab Blank          | Modified TO-15 | NA                            |
| 11A               | CCV                | Modified TO-15 | NA                            |
| 11B               | CCV                | Modified TO-15 | NA                            |
| 11C               | CCV                | Modified TO-15 | NA                            |
| 12A               | LCS                | Modified TO-15 | NA                            |
| 12B               | LCS                | Modified TO-15 | NA                            |
| 12C               | LCS                | Modified TO-15 | NA                            |

CERTIFIED BY:

Laboratory Director

DATE: 09/12/03

Certification numbers: AR DEQ, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Cambria Environmental Technology**  
**Workorder# 0308547**

Nine 6 Liter Summa Canister samples were received on September 2, 2003. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

| <i>Requirement</i>                | <i>TO-15</i>   | <i>ATL Modifications</i>  |
|-----------------------------------|--|---|
| BFB acceptance criteria           | CLP protocol   | SW-846 protocol   |
| Concentration of IS spike         | 10 ppbv  | 25 ppbv when 0.5/2.0 ppbv is used for the reporting limit   |
| Dilutions for initial calibration | Dynamic dilutions or static using canisters  | Syringe dilutions   |
| Daily CCV                         | $\leq 30\%$ Difference   | $\leq 30\%$ Difference with two allowed out up to $\leq 40\%$ ; flag and narrate outliers             |
| Primary ions for Quantification   | Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91 | Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106 |
| IS Recoveries                     | Within 40% of mean over ICAL for blanks, and w/in 40 % of daily CCV for samples                      | Within 40% of CCV recoveries for blank and samples  |

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

Dilution was performed on samples VP-1@3', VP-2@3', VP-3@3', VP-1@8', VP-2@8', VP-3@8', VP-1@12', VP-2@12' and VP-3@12' due to the presence of high level non-target species.

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

**Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not

performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated Peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: VP-1@3'

ID#: 0308547-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090611 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 12.9    | Date of Analysis:   | 9/6/03 03:45 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 6.4                  | 21                    | Not Detected     | Not Detected      |
| Toluene                       | 6.4                  | 25                    | 6.8              | 26                |
| Ethyl Benzene                 | 6.4                  | 28                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 6.4                  | 28                    | Not Detected     | Not Detected      |
| o-Xylene                      | 6.4                  | 28                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 26                   | 94                    | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 26                   | 110                   | Not Detected     | Not Detected      |
| Isopropyl ether               | 26                   | 110                   | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 26                   | 110                   | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 26                   | 79                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 130                  | 540                   | 14000            | 60000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 96        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-2@3'

ID#: 0308547-02A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 6090615 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 6.72    | Date of Analysis:   | 9/6/03 06:03 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 3.4                  | 11                    | Not Detected     | Not Detected      |
| Toluene                       | 3.4                  | 13                    | 42               | 160               |
| Ethyl Benzene                 | 3.4                  | 15                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 3.4                  | 15                    | 4.1              | 18                |
| o-Xylene                      | 3.4                  | 15                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 13                   | 49                    | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 13                   | 57                    | Not Detected     | Not Detected      |
| Isopropyl ether               | 13                   | 57                    | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 13                   | 57                    | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 13                   | 41                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 67                   | 280                   | 15000            | 63000             |

### Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 94        | 70-130           |
| 1,2-Dichloroethane-d4 | 97        | 70-130           |
| 4-Bromofluorobenzene  | 101       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-3@@3'

ID#: 0308547-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090616 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 6.20    | Date of Analysis:   | 9/6/03 06:37 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 3.1                  | 10                    | Not Detected     | Not Detected      |
| Toluene                       | 3.1                  | 12                    | 7.3              | 28                |
| Ethyl Benzene                 | 3.1                  | 14                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 3.1                  | 14                    | Not Detected     | Not Detected      |
| o-Xylene                      | 3.1                  | 14                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 12                   | 45                    | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 12                   | 53                    | Not Detected     | Not Detected      |
| Isopropyl ether               | 12                   | 53                    | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 12                   | 53                    | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 12                   | 38                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 62                   | 260                   | 13000            | 53000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 94        | 70-130           |
| 1,2-Dichloroethane-d4 | 98        | 70-130           |
| 4-Bromofluorobenzene  | 101       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-1@8'

ID#: 0308547-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1091109 | Date of Collection: | 8/26/03          |
| Dil. Factor: | 16.1    | Date of Analysis:   | 9/11/03 04:07 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 8.0                  | 26                    | Not Detected     | Not Detected      |
| Toluene                       | 8.0                  | 31                    | Not Detected     | Not Detected      |
| Ethyl Benzene                 | 8.0                  | 36                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 8.0                  | 36                    | Not Detected     | Not Detected      |
| o-Xylene                      | 8.0                  | 36                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 32                   | 120                   | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 32                   | 140                   | Not Detected     | Not Detected      |
| Isopropyl ether               | 32                   | 140                   | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 32                   | 140                   | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 32                   | 99                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 160                  | 670                   | 19000            | 81000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 108       | 70-130           |
| 4-Bromofluorobenzene  | 96        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-2@8'

ID#: 0308547-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090618 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 6.84    | Date of Analysis:   | 9/6/03 07:42 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 3.4                  | 11                    | 4.1              | 13                |
| Toluene                       | 3.4                  | 13                    | 20               | 77                |
| Ethyl Benzene                 | 3.4                  | 15                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 3.4                  | 15                    | Not Detected     | Not Detected      |
| o-Xylene                      | 3.4                  | 15                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 14                   | 50                    | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 14                   | 58                    | Not Detected     | Not Detected      |
| Isopropyl ether               | 14                   | 58                    | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 14                   | 58                    | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 14                   | 42                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 68                   | 280                   | 16000            | 66000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 91        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 101       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-3@8'

ID#: 0308547-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 6090619 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 6.56    | Date of Analysis:   | 9/6/03 08:10 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 3.3                  | 11                    | 5.3              | 17                |
| Toluene                       | 3.3                  | 12                    | 12               | 46                |
| Ethyl Benzene                 | 3.3                  | 14                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 3.3                  | 14                    | Not Detected     | Not Detected      |
| o-Xylene                      | 3.3                  | 14                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 13                   | 48                    | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 13                   | 56                    | Not Detected     | Not Detected      |
| Isopropyl ether               | 13                   | 56                    | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 13                   | 56                    | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 13                   | 40                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 66                   | 270                   | 16000            | 68000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 92        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 102       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-1@12'

ID#: 0308547-07A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 6090620 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 7.16    | Date of Analysis:   | 9/6/03 08:47 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 3.6                  | 12                    | 8.2              | 26                |
| Toluene                       | 3.6                  | 14                    | 6.6              | 25                |
| Ethyl Benzene                 | 3.6                  | 16                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 3.6                  | 16                    | 3.9              | 17                |
| o-Xylene                      | 3.6                  | 16                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 14                   | 52                    | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 14                   | 61                    | Not Detected     | Not Detected      |
| Isopropyl ether               | 14                   | 61                    | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 14                   | 61                    | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 14                   | 44                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 72                   | 300                   | 37000            | 160000            |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 91        | 70-130           |
| 1,2-Dichloroethane-d4 | 110       | 70-130           |
| 4-Bromofluorobenzene  | 102       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-2@12'

ID#: 0308547-08A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 6090710 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 6.84    | Date of Analysis:   | 9/7/03 02:26 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 3.4                  | 11                    | 4.3              | 14                |
| Toluene                       | 3.4                  | 13                    | 34               | 130               |
| Ethyl Benzene                 | 3.4                  | 15                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 3.4                  | 15                    | 5.8              | 26                |
| o-Xylene                      | 3.4                  | 15                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 14                   | 50                    | 26               | 95                |
| tert-Amyl methyl ether        | 14                   | 58                    | Not Detected     | Not Detected      |
| Isopropyl ether               | 14                   | 58                    | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 14                   | 58                    | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 14                   | 42                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 68                   | 280                   | 23000            | 96000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 93        | 70-130           |
| 1,2-Dichloroethane-d4 | 96        | 70-130           |
| 4-Bromofluorobenzene  | 105       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-3@12'

ID#: 0308547-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090708 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 6.32    | Date of Analysis:   | 9/7/03 01:18 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 3.2                  | 10                    | 17               | 54                |
| Toluene                       | 3.2                  | 12                    | 7.1              | 27                |
| Ethyl Benzene                 | 3.2                  | 14                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 3.2                  | 14                    | 4.8              | 21                |
| o-Xylene                      | 3.2                  | 14                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 13                   | 46                    | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 13                   | 54                    | Not Detected     | Not Detected      |
| Isopropyl ether               | 13                   | 54                    | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 13                   | 54                    | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 13                   | 39                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 63                   | 260                   | 34000            | 140000            |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 95        | 70-130           |
| 1,2-Dichloroethane-d4 | 110       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP-3@12' Duplicate

ID#: 0308547-09AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090709 | Date of Collection: | 8/26/03         |
| Dil. Factor: | 6.32    | Date of Analysis:   | 9/7/03 01:51 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 3.2                  | 10                    | 16               | 53                |
| Toluene                       | 3.2                  | 12                    | 7.0              | 27                |
| Ethyl Benzene                 | 3.2                  | 14                    | Not Detected     | Not Detected      |
| m,p-Xylene                    | 3.2                  | 14                    | 5.4              | 24                |
| o-Xylene                      | 3.2                  | 14                    | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 13                   | 46                    | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 13                   | 54                    | Not Detected     | Not Detected      |
| Isopropyl ether               | 13                   | 54                    | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 13                   | 54                    | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 13                   | 39                    | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 63                   | 260                   | 35000            | 140000            |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 92        | 70-130           |
| 1,2-Dichloroethane-d4 | 110       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0308547-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090609 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 9/6/03 02:31 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 0.50                 | 1.6                   | Not Detected     | Not Detected      |
| Toluene                       | 0.50                 | 1.9                   | Not Detected     | Not Detected      |
| Ethyl Benzene                 | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| m,p-Xylene                    | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| o-Xylene                      | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | 7.3                   | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| Isopropyl ether               | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | 6.2                   | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | 42                    | Not Detected     | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 95        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 96        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0308547-10B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 6090707 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 9/7/03 12:41 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 0.50                 | 1.6                   | Not Detected     | Not Detected      |
| Toluene                       | 0.50                 | 1.9                   | Not Detected     | Not Detected      |
| Ethyl Benzene                 | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| m,p-Xylene                    | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| o-Xylene                      | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | 7.3                   | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| Isopropyl ether               | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | 6.2                   | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | 42                    | Not Detected     | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 86        | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0308547-10C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1091108 | Date of Collection: | NA               |
| Dil. Factor: | 1.00    | Date of Analysis:   | 9/11/03 03:00 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(ppbv) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|-----------------------|------------------|-------------------|
| Benzene                       | 0.50                 | 1.6                   | Not Detected     | Not Detected      |
| Toluene                       | 0.50                 | 1.9                   | Not Detected     | Not Detected      |
| Ethyl Benzene                 | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| m,p-Xylene                    | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| o-Xylene                      | 0.50                 | 2.2                   | Not Detected     | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | 7.3                   | Not Detected     | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| Isopropyl ether               | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | 8.5                   | Not Detected     | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | 6.2                   | Not Detected     | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | 42                    | Not Detected     | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 101       | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0308547-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090602 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 9/6/03 08:46 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 109        |
| Toluene                       | 113        |
| Ethyl Benzene                 | 108        |
| m,p-Xylene                    | 110        |
| o-Xylene                      | 112        |
| Methyl tert-butyl ether       | 107        |
| tert-Amyl methyl ether        | 97         |
| Isopropyl ether               | 103        |
| Ethyl-tert-butyl ether        | 100        |
| tert-Butyl alcohol            | 107        |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 103       | 70-130        |
| 1,2-Dichloroethane-d4 | 105       | 70-130        |
| 4-Bromofluorobenzene  | 99        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0308547-11B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090703 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 9/7/03 09:57 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 100        |
| Toluene                       | 102        |
| Ethyl Benzene                 | 100        |
| m,p-Xylene                    | 105        |
| o-Xylene                      | 105        |
| Methyl tert-butyl ether       | 101        |
| tert-Amyl methyl ether        | 105        |
| Isopropyl ether               | 111        |
| Ethyl-tert-butyl ether        | 109        |
| tert-Butyl alcohol            | 118        |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 97        | 70-130        |
| 1,2-Dichloroethane-d4 | 101       | 70-130        |
| 4-Bromofluorobenzene  | 99        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0308547-11C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1091102 | Date of Collection: | NA               |
| Dil. Factor: | 1.00    | Date of Analysis:   | 9/11/03 10:27 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 109        |
| Toluene                       | 111        |
| Ethyl Benzene                 | 112        |
| m,p-Xylene                    | 110        |
| o-Xylene                      | 109        |
| Methyl tert-butyl ether       | 118        |
| tert-Amyl methyl ether        | 103        |
| Isopropyl ether               | 103        |
| Ethyl-tert-butyl ether        | 104        |
| tert-Butyl alcohol            | 108        |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 100       | 70-130        |
| 1,2-Dichloroethane-d4 | 98        | 70-130        |
| 4-Bromofluorobenzene  | 97        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0308547-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | b090603 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 9/6/03 09:24 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 124        |
| Toluene                       | 116        |
| Ethyl Benzene                 | 109        |
| m,p-Xylene                    | 113        |
| o-Xylene                      | 108        |
| Methyl tert-butyl ether       | 111        |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 99        | 70-130        |
| 4-Bromofluorobenzene  | 96        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0308547-12B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                   |
|--------------|---------|-----------------------------------|
| File Name:   | 0090704 | Date of Collection: NA            |
| Dil. Factor: | 1.00    | Date of Analysis: 9/7/03 10:36 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 119        |
| Toluene                       | 110        |
| Ethyl Benzene                 | 104        |
| m,p-Xylene                    | 106        |
| o-Xylene                      | 103        |
| Methyl tert-butyl ether       | 108        |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 97        | 70-130        |
| 1,2-Dichloroethane-d4 | 99        | 70-130        |
| 4-Bromofluorobenzene  | 94        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0308547-12C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1091103 | Date of Collection: | NA               |
| Dil. Factor: | 1.00    | Date of Analysis:   | 9/11/03 11:15 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 118        |
| Toluene                       | 113        |
| Ethyl Benzene                 | 112        |
| m,p-Xylene                    | 104        |
| o-Xylene                      | 102        |
| Methyl tert-butyl ether       | 119        |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 100       | 70-130        |
| 1,2-Dichloroethane-d4 | 97        | 70-130        |
| 4-Bromofluorobenzene  | 98        | 70-130        |



## CHAIN-OF-CUSTODY RECORD

## Sample Transportation Notice

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Page 1 of 1

|   |  |                            |  |   |  |
|---|--|----------------------------|--|---|--|
| Contact Person <u>Bob Foss</u>  |  | Project Info:              |  | Turn Around Time:                                 |  |
| Company <u>Cambria</u>  |  | P.D. # _____               |  | <input checked="" type="checkbox"/> Normal        |  |
| Address <u>5900 Hollis St., Suite A</u> City <u>Emeryville</u> State <u>CA</u> Zip <u>94608</u> |  | Project # <u>30-1915</u>   |  | <input type="checkbox"/> Rush _____ Specify _____ |  |
| Phone <u>510-420-0700</u> FAX <u>510-420-9170</u>   |  | Project Name <u>9-0260</u> |  |   |  |
| Collected By: Signature <u>[Signature]</u>  |  |                            |  | 9/3/03  |  |

| Lab ID | Field Sample I.D. | Date & Time   | Analyses Requested   | Canister Pressure / Vacuum |       |          |
|--------|-------------------|---------------|--|----------------------------|-------|----------|
|        |                   |               |  | Initial                    | Final | Residual |
| 01A    | VSP-1@3           | 8/26/03 12:03 | BTEX<br>TPH <sub>3</sub><br>TAME<br>MTBE<br>ETBE<br>TO-15<br>DPE<br>by (all samples) | -29                        | -4    | 5.81 kPa |
| 04A    | VSP-1@8           | 13:40         |  | -30                        | -5    | 5.0 kPa  |
| 07A    | VSP-1@12          | 16:00         |  | -30                        | -5    | 7.5 kPa  |
| 02A    | VSP-2@3           | 12:25         |  | -30                        | -3    | 6.0 kPa  |
| 05A    | VSP-2@8           | 14:55         |  | -30                        | -5    | 6.5 kPa  |
| 08A    | VSP-2@12          | 16:45         |  | -30                        | -5    | 6.5 kPa  |
| 03A    | VSP-3@3           | 13:03         |  | -30                        | -3    | 4.0 kPa  |
| 06A    | VSP-3@8           | 15:20         |  | -30                        | -5    | 5.5 kPa  |
| 09A    | VSP-3@12          | 17:00         |  | -28                        | -5    | 4.5 kPa  |

|  |   |        |
|--|---|--------|
| Relinquished By (Signature) Date/Time<br><u>[Signature]</u> 9/3/03 14:45 | Received By (Signature) Date/Time<br><u>[Signature]</u> 9/2/03 1625 | Notes: |
| Relinquished By (Signature) Date/Time                                    | Received By (Signature) Date/Time                                   |        |
| Relinquished By (Signature) Date/Time                                    | Received By (Signature) Date/Time                                   |        |

|              |              |            |                    |            |           |                      |              |
|--------------|--------------|------------|--------------------|------------|-----------|----------------------|--------------|
| Lab Use Only | Shipper Name | Air Bill # | Opened By          | Temp. (°C) | Condition | Custody Seal Intact? | Work Order # |
|              |              |            | <u>[Signature]</u> | -          | Good      | Yes No <u>None</u>   | 0308547      |

① Samples arrived on 8/27/03 without a COC. 9/2/03.



# **AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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## **Air Toxics Ltd. Introduces the Electronic Report**

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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**Hours 8:00 A.M to 6:00 P.M. Pacific**

**E-mail to: [samplereceiving@airtoxics.com](mailto:samplereceiving@airtoxics.com)**



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0401396AR1**

## Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Mr. Greg Bentley<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 | <b>BILL TO:</b>  | Mr. Greg Bentley<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 |
| <b>PHONE:</b>          | 510-420-3346  | <b>P.O. #</b>    | 9-0260  |
| <b>FAX:</b>            | 510-420-9170  | <b>PROJECT #</b> | 9-0260 Hayward  |
| <b>DATE RECEIVED:</b>  | 1/29/04   | <b>CONTACT:</b>  | Taryn Badal   |
| <b>DATE COMPLETED:</b> | 2/20/04   |                  |   |
| <b>DATE REISSUED:</b>  | 2/20/04   |                  |   |

| <u>FRACTION #</u> | <u>NAME</u>     | <u>TEST</u>    | <u>RECEIPT</u><br><u>VAC./PRES.</u> |
|-------------------|-----------------|----------------|-------------------------------------|
| 01A               | VP1-3           | Modified TO-15 | 2.5 "Hg                             |
| 01B               | VP1-3           | Modified TO-15 |                                     |
| 02A               | VP1-3 dup       | Modified TO-15 | 2.5 "Hg                             |
| 02B               | VP1-3 dup       | Modified TO-15 |                                     |
| 03A               | VP1-9           | Modified TO-15 | 2.0 "Hg                             |
| 03AA              | VP1-9 Duplicate | Modified TO-15 | 2.0 "Hg                             |
| 03B               | VP1-9           | Modified TO-15 |                                     |
| 04A               | VP1-12          | Modified TO-15 | 16.5 "Hg                            |
| 04B               | VP1-12          | Modified TO-15 |                                     |
| 05A               | VP2-3           | Modified TO-15 | 3.0 "Hg                             |
| 05B               | VP2-3           | Modified TO-15 |                                     |
| 06A               | VP2-8           | Modified TO-15 | 3.5 "Hg                             |
| 06B               | VP2-8           | Modified TO-15 |                                     |
| 07A               | VP2-12          | Modified TO-15 | 11.0 "Hg                            |
| 07B               | VP2-12          | Modified TO-15 |                                     |
| 08A               | VP3-3           | Modified TO-15 | 4.0 "Hg                             |
| 08B               | VP3-3           | Modified TO-15 |                                     |
| 08BB              | VP3-3           | Modified TO-15 |                                     |
| 09A               | VP3-8           | Modified TO-15 | 4.5 "Hg                             |
| 09B               | VP3-8           | Modified TO-15 |                                     |

Continued on next page



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0401396AR1**

## Work Order Summary

**CLIENT:** Mr. Greg Bentley  
Cambria Environmental Technology  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**BILL TO:** Mr. Greg Bentley  
Cambria Environmental Technology  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**PHONE:** 510-420-3346 **P.O. #** 9-0260

**FAX:** 510-420-9170 **PROJECT #** 9-0260 Hayward

**DATE RECEIVED:** 1/29/04 **CONTACT:** Taryn Badal

**DATE COMPLETED:** 2/20/04

**DATE REISSUED:** 2/20/04

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>    | <u>RECEIPT<br/>VAC./PRES.</u> |
|-------------------|-------------|----------------|-------------------------------|
| 10A               | VP3-12      | Modified TO-15 | 24.0 "Hg                      |
| 10B               | VP3-12      | Modified TO-15 |                               |
| 11A               | Lab Blank   | Modified TO-15 | NA                            |
| 11B               | Lab Blank   | Modified TO-15 | NA                            |
| 11C               | Lab Blank   | Modified TO-15 | NA                            |
| 11D               | Lab Blank   | Modified TO-15 | NA                            |
| 12A               | CCV         | Modified TO-15 | NA                            |
| 12B               | CCV         | Modified TO-15 | NA                            |
| 12C               | CCV         | Modified TO-15 | NA                            |
| 12D               | CCV         | Modified TO-15 | NA                            |
| 13A               | LCS         | Modified TO-15 | NA                            |
| 13B               | LCS         | Modified TO-15 | NA                            |
| 13C               | LCS         | Modified TO-15 | NA                            |
| 13D               | LCS         | Modified TO-15 | NA                            |

CERTIFIED BY:

*Linda J. Freeman*

Laboratory Director

DATE: 02/20/04

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Cambria Environmental Technology**  
**Workorder# 0401396AR1**

Ten 6 Liter Summa Canister samples were received on January 29, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

| <i>Requirement</i>                | <i>TO-15</i>   | <i>ATL Modifications</i>  |
|-----------------------------------|--|---|
| BFB acceptance criteria           | CLP protocol   | SW-846 protocol   |
| Concentration of IS spike         | 10 ppbv  | 25 ppbv when 0.5/2.0 ppbv is used for the reporting limit   |
| Dilutions for initial calibration | Dynamic dilutions or static using canisters  | Syringe dilutions   |
| Daily CCV                         | <= 30% Difference  | <= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers                        |
| Primary ions for Quantification   | Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91 | Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106 |

**Receiving Notes**

Sample VP1-12 and VP3-12 were received with significant vacuum remaining in the canister. The discrepancy was noted in the Login email. The residual canister vacuum resulted in elevated reporting limits.

**Analytical Notes**

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Dilution was performed on samples VP1-3, VP1-3 dup, VP1-9, VP1-12, VP2-3, VP2-8, VP2-12, VP3-3, VP3-8, and VP3-12 due to the presence of high level non-target species.

THE WORK ORDER WAS RE-ISSUED ON 02/20/04 TO REPORT 2-PROPANOL PER CLIENT REQUEST.

BY CLIENT REQUEST, THE SAMPLE WAS ANALYZED TWICE IN ORDER TO ACCURATELY DETERMINE HIGH-LEVEL COMPOUNDS AND ACHIEVE LOWER DETECTION LIMITS FOR THE REMAINING COMPOUNDS. BOTH RUNS AND ASSOCIATED QC ARE REPORTED.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated Peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: VP1-3

ID#: 0401396AR1-01A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020611 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 24.3    | Date of Analysis:   | 2/6/04 01:04 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 12                   | Not Detected     | 39                    | Not Detected      |
| Toluene                       | 12                   | Not Detected     | 46                    | Not Detected      |
| Ethyl Benzene                 | 12                   | Not Detected     | 54                    | Not Detected      |
| m,p-Xylene                    | 12                   | Not Detected     | 54                    | Not Detected      |
| o-Xylene                      | 12                   | Not Detected     | 54                    | Not Detected      |
| Methyl tert-butyl ether       | 49                   | Not Detected     | 180                   | Not Detected      |
| tert-Amyl methyl ether        | 49                   | Not Detected     | 210                   | Not Detected      |
| Isopropyl ether               | 49                   | Not Detected     | 210                   | Not Detected      |
| Ethyl-tert-butyl ether        | 49                   | Not Detected     | 210                   | Not Detected      |
| tert-Butyl alcohol            | 49                   | Not Detected     | 150                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 240                  | 17000            | 1000                  | 69000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 99        | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1-3

ID#: 0401396AR1-01B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021717 | Date of Collection: | 1/23/04          |
| Dil. Factor: | 365     | Date of Analysis:   | 2/17/04 06:22 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 730                  | 44000            | 1800                  | 110000            |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1-3 dup

ID#: 0401396AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020612 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 3.89    | Date of Analysis:   | 2/6/04 01:44 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 1.9                  | Not Detected     | 6.3                   | Not Detected      |
| Toluene                       | 1.9                  | Not Detected     | 7.4                   | Not Detected      |
| Ethyl Benzene                 | 1.9                  | Not Detected     | 8.6                   | Not Detected      |
| m,p-Xylene                    | 1.9                  | Not Detected     | 8.6                   | Not Detected      |
| o-Xylene                      | 1.9                  | Not Detected     | 8.6                   | Not Detected      |
| Methyl tert-butyl ether       | 7.8                  | Not Detected     | 28                    | Not Detected      |
| tert-Amyl methyl ether        | 7.8                  | Not Detected     | 33                    | Not Detected      |
| Isopropyl ether               | 7.8                  | Not Detected     | 33                    | Not Detected      |
| Ethyl-tert-butyl ether        | 7.8                  | Not Detected     | 33                    | Not Detected      |
| tert-Butyl alcohol            | 7.8                  | Not Detected     | 24                    | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 39                   | 2600             | 160                   | 11000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 101       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1-3 dup

ID#: 0401396AR1-02B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021718 | Date of Collection: | 1/23/04          |
| Dil. Factor: | 38.9    | Date of Analysis:   | 2/17/04 07:01 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 78                   | 5200             | 190                   | 13000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1-9

ID#: 0401396AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020613 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 5.76    | Date of Analysis:   | 2/6/04 02:23 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 2.9                  | Not Detected     | 9.4                   | Not Detected      |
| Toluene                       | 2.9                  | Not Detected     | 11                    | Not Detected      |
| Ethyl Benzene                 | 2.9                  | Not Detected     | 13                    | Not Detected      |
| m,p-Xylene                    | 2.9                  | Not Detected     | 13                    | Not Detected      |
| o-Xylene                      | 2.9                  | Not Detected     | 13                    | Not Detected      |
| Methyl tert-butyl ether       | 12                   | Not Detected     | 42                    | Not Detected      |
| tert-Amyl methyl ether        | 12                   | Not Detected     | 49                    | Not Detected      |
| Isopropyl ether               | 12                   | Not Detected     | 49                    | Not Detected      |
| Ethyl-tert-butyl ether        | 12                   | Not Detected     | 49                    | Not Detected      |
| tert-Butyl alcohol            | 12                   | Not Detected     | 35                    | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 58                   | 4300             | 240                   | 18000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 99        | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1-9 Duplicate

ID#: 0401396AR1-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020614 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 5.76    | Date of Analysis:   | 2/6/04 03:03 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 2.9                  | Not Detected     | 9.4                   | Not Detected      |
| Toluene                       | 2.9                  | Not Detected     | 11                    | Not Detected      |
| Ethyl Benzene                 | 2.9                  | Not Detected     | 13                    | Not Detected      |
| m,p-Xylene                    | 2.9                  | Not Detected     | 13                    | Not Detected      |
| o-Xylene                      | 2.9                  | Not Detected     | 13                    | Not Detected      |
| Methyl tert-butyl ether       | 12                   | Not Detected     | 42                    | Not Detected      |
| tert-Amyl methyl ether        | 12                   | Not Detected     | 49                    | Not Detected      |
| Isopropyl ether               | 12                   | Not Detected     | 49                    | Not Detected      |
| Ethyl-tert-butyl ether        | 12                   | Not Detected     | 49                    | Not Detected      |
| tert-Butyl alcohol            | 12                   | Not Detected     | 35                    | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 58                   | 4300             | 240                   | 18000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1-9

ID#: 0401396AR1-03B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021719 | Date of Collection: | 1/23/04          |
| Dil. Factor: | 57.6    | Date of Analysis:   | 2/17/04 07:40 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 120                  | 7300             | 290                   | 18000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1-12

ID#: 0401396AR1-04A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020615 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 14.9    | Date of Analysis:   | 2/6/04 03:42 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 7.4                  | Not Detected     | 24                    | Not Detected      |
| Toluene                       | 7.4                  | Not Detected     | 28                    | Not Detected      |
| Ethyl Benzene                 | 7.4                  | Not Detected     | 33                    | Not Detected      |
| m,p-Xylene                    | 7.4                  | Not Detected     | 33                    | Not Detected      |
| o-Xylene                      | 7.4                  | Not Detected     | 33                    | Not Detected      |
| Methyl tert-butyl ether       | 30                   | Not Detected     | 110                   | Not Detected      |
| tert-Amyl methyl ether        | 30                   | Not Detected     | 130                   | Not Detected      |
| Isopropyl ether               | 30                   | Not Detected     | 130                   | Not Detected      |
| Ethyl-tert-butyl ether        | 30                   | Not Detected     | 130                   | Not Detected      |
| tert-Butyl alcohol            | 30                   | Not Detected     | 92                    | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 150                  | 18000            | 620                   | 75000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1-12

ID#: 0401396AR1-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021720 | Date of Collection: | 1/23/04          |
| Dil. Factor: | 119     | Date of Analysis:   | 2/17/04 08:19 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 240                  | 42000 E          | 590                   | 110000 E          |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 103       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2-3

ID#: 0401396AR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020616 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 3.97    | Date of Analysis:   | 2/6/04 04:21 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 2.0                  | Not Detected     | 6.4                   | Not Detected      |
| Toluene                       | 2.0                  | 2.5              | 7.6                   | 9.6               |
| Ethyl Benzene                 | 2.0                  | Not Detected     | 8.8                   | Not Detected      |
| m,p-Xylene                    | 2.0                  | Not Detected     | 8.8                   | Not Detected      |
| o-Xylene                      | 2.0                  | Not Detected     | 8.8                   | Not Detected      |
| Methyl tert-butyl ether       | 7.9                  | Not Detected     | 29                    | Not Detected      |
| tert-Amyl methyl ether        | 7.9                  | Not Detected     | 34                    | Not Detected      |
| Isopropyl ether               | 7.9                  | Not Detected     | 34                    | Not Detected      |
| Ethyl-tert-butyl ether        | 7.9                  | Not Detected     | 34                    | Not Detected      |
| tert-Butyl alcohol            | 7.9                  | Not Detected     | 24                    | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 40                   | 3100             | 160                   | 13000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 98        | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2-3

ID#: 0401396AR1-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021721 | Date of Collection: | 1/23/04          |
| Dil. Factor: | 38.4    | Date of Analysis:   | 2/17/04 08:58 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 77                   | 8100 E           | 190                   | 20000 E           |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2-8

ID#: 0401396AR1-06A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020617 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 15.2    | Date of Analysis:   | 2/6/04 04:59 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 7.6                  | Not Detected     | 25                    | Not Detected      |
| Toluene                       | 7.6                  | Not Detected     | 29                    | Not Detected      |
| Ethyl Benzene                 | 7.6                  | Not Detected     | 34                    | Not Detected      |
| m,p-Xylene                    | 7.6                  | Not Detected     | 34                    | Not Detected      |
| o-Xylene                      | 7.6                  | Not Detected     | 34                    | Not Detected      |
| Methyl tert-butyl ether       | 30                   | Not Detected     | 110                   | Not Detected      |
| tert-Amyl methyl ether        | 30                   | Not Detected     | 130                   | Not Detected      |
| Isopropyl ether               | 30                   | Not Detected     | 130                   | Not Detected      |
| Ethyl-tert-butyl ether        | 30                   | Not Detected     | 130                   | Not Detected      |
| tert-Butyl alcohol            | 30                   | Not Detected     | 94                    | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 150                  | 11000            | 630                   | 47000             |

### Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 97        | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2-8

ID#: 0401396AR1-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | i021722 | Date of Collection: | 1/26/04          |
| Dil. Factor: | 152     | Date of Analysis:   | 2/17/04 09:36 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 300                  | 31000 E          | 760                   | 78000 E           |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 103       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2-12

ID#: 0401396AR1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020618 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 848     | Date of Analysis:   | 2/6/04 05:38 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 420                  | Not Detected     | 1400                  | Not Detected      |
| Toluene                       | 420                  | Not Detected     | 1600                  | Not Detected      |
| Ethyl Benzene                 | 420                  | Not Detected     | 1900                  | Not Detected      |
| m,p-Xylene                    | 420                  | Not Detected     | 1900                  | Not Detected      |
| o-Xylene                      | 420                  | Not Detected     | 1900                  | Not Detected      |
| Methyl tert-butyl ether       | 1700                 | Not Detected     | 6200                  | Not Detected      |
| tert-Amyl methyl ether        | 1700                 | Not Detected     | 7200                  | Not Detected      |
| Isopropyl ether               | 1700                 | Not Detected     | 7200                  | Not Detected      |
| Ethyl-tert-butyl ether        | 1700                 | Not Detected     | 7200                  | Not Detected      |
| tert-Butyl alcohol            | 1700                 | Not Detected     | 5200                  | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 8500                 | 600000           | 35000                 | 2500000           |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 96        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2-12

ID#: 0401396AR1-07B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021723 | Date of Collection: | 1/26/04          |
| Dil. Factor: | 17000   | Date of Analysis:   | 2/17/04 10:29 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 34000                | 2100000          | 85000                 | 5200000           |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3-3

ID#: 0401396AR1-08A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020511 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 7.75    | Date of Analysis:   | 2/5/04 04:52 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 3.9                  | Not Detected     | 12                    | Not Detected      |
| Toluene                       | 3.9                  | Not Detected     | 15                    | Not Detected      |
| Ethyl Benzene                 | 3.9                  | Not Detected     | 17                    | Not Detected      |
| m,p-Xylene                    | 3.9                  | Not Detected     | 17                    | Not Detected      |
| o-Xylene                      | 3.9                  | Not Detected     | 17                    | Not Detected      |
| Methyl tert-butyl ether       | 16                   | Not Detected     | 57                    | Not Detected      |
| tert-Amyl methyl ether        | 16                   | Not Detected     | 66                    | Not Detected      |
| Isopropyl ether               | 16                   | Not Detected     | 66                    | Not Detected      |
| Ethyl-tert-butyl ether        | 16                   | Not Detected     | 66                    | Not Detected      |
| tert-Butyl alcohol            | 16                   | Not Detected     | 48                    | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 78                   | 5400             | 320                   | 22000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3-3

ID#: 0401396AR1-08B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021809 | Date of Collection: | 1/26/04          |
| Dil. Factor: | 38.8    | Date of Analysis:   | 2/18/04 08:03 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 78                   | 12000 E          | 190                   | 31000 E           |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3-3

ID#: 0401396AR1-08BB

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021811 | Date of Collection: | 1/26/04          |
| Dil. Factor: | 38.8    | Date of Analysis:   | 2/18/04 09:26 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 78                   | 12000 E          | 190                   | 30000 E           |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 102       | 70-130           |
| 1,2-Dichloroethane-d4 | 98        | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3-8

ID#: 0401396AR1-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | S020512 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 158     | Date of Analysis:   | 2/5/04 05:30 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 79                   | Not Detected     | 260                   | Not Detected      |
| Toluene                       | 79                   | Not Detected     | 300                   | Not Detected      |
| Ethyl Benzene                 | 79                   | Not Detected     | 350                   | Not Detected      |
| m,p-Xylene                    | 79                   | Not Detected     | 350                   | Not Detected      |
| o-Xylene                      | 79                   | Not Detected     | 350                   | Not Detected      |
| Methyl tert-butyl ether       | 320                  | Not Detected     | 1200                  | Not Detected      |
| tert-Amyl methyl ether        | 320                  | Not Detected     | 1300                  | Not Detected      |
| Isopropyl ether               | 320                  | Not Detected     | 1300                  | Not Detected      |
| Ethyl-tert-butyl ether        | 320                  | Not Detected     | 1300                  | Not Detected      |
| tert-Butyl alcohol            | 320                  | Not Detected     | 970                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 1600                 | 93000            | 6600                  | 390000            |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3-8

ID#: 0401396AR1-09B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021724 | Date of Collection: | 1/26/04          |
| Dil. Factor: | 1580    | Date of Analysis:   | 2/17/04 11:08 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 3200                 | 330000 E         | 7900                  | 820000 E          |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3-12

ID#: 0401396AR1-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020513 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 6.70    | Date of Analysis:   | 2/5/04 06:11 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 3.4                  | 3.4              | 11                    | 11                |
| Toluene                       | 3.4                  | 6.3              | 13                    | 24                |
| Ethyl Benzene                 | 3.4                  | Not Detected     | 15                    | Not Detected      |
| m,p-Xylene                    | 3.4                  | 3.7              | 15                    | 16                |
| o-Xylene                      | 3.4                  | Not Detected     | 15                    | Not Detected      |
| Methyl tert-butyl ether       | 13                   | Not Detected     | 49                    | Not Detected      |
| tert-Amyl methyl ether        | 13                   | Not Detected     | 57                    | Not Detected      |
| Isopropyl ether               | 13                   | Not Detected     | 57                    | Not Detected      |
| Ethyl-tert-butyl ether        | 13                   | Not Detected     | 57                    | Not Detected      |
| tert-Butyl alcohol            | 13                   | Not Detected     | 41                    | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 67                   | 2700             | 280                   | 11000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 112       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3-12

ID#: 0401396AR1-10B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021810 | Date of Collection: | 1/26/04          |
| Dil. Factor: | 6.70    | Date of Analysis:   | 2/18/04 08:45 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 13                   | Not Detected     | 33                    | Not Detected      |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 103       | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0401396AR1-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |          |                     |                 |
|--------------|----------|---------------------|-----------------|
| File Name:   | s020510a | Date of Collection: | NA              |
| Dil. Factor: | 1.00     | Date of Analysis:   | 2/5/04 03:48 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.3                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.2                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 5.0                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 42                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0401396AR1-11B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |          |                     |                 |
|--------------|----------|---------------------|-----------------|
| File Name:   | s020607a | Date of Collection: | NA              |
| Dil. Factor: | 1.00     | Date of Analysis:   | 2/6/04 08:31 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.3                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.2                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 5.0                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 42                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0401396AR1-11C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021705 | Date of Collection: | NA               |
| Dil. Factor: | 1.00    | Date of Analysis:   | 2/17/04 09:48 AM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 2.0                  | Not Detected     | 5.0                   | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0401396AR1-11D

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021808 | Date of Collection: | NA               |
| Dil. Factor: | 1.00    | Date of Analysis:   | 2/18/04 07:16 PM |

| Compound   | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 2.0                  | Not Detected     | 5.0                   | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 93        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0401396AR1-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | S020502 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 2/8/04 09:45 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 88         |
| Toluene                       | 87         |
| Ethyl Benzene                 | 87         |
| m,p-Xylene                    | 83         |
| o-Xylene                      | 86         |
| Methyl tert-butyl ether       | 82         |
| tert-Amyl methyl ether        | 126        |
| Isopropyl ether               | 87         |
| Ethyl-tert-butyl ether        | 84         |
| tert-Butyl alcohol            | 113        |
| 2-Propanol                    | 95         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 101       | 70-130        |
| 1,2-Dichloroethane-d4 | 100       | 70-130        |
| 4-Bromofluorobenzene  | 100       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0401396AR1-12B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                   |
|--------------|---------|-----------------------------------|
| File Name:   | s020605 | Date of Collection: NA            |
| Dil. Factor: | 1.00    | Date of Analysis: 2/6/04 06:58 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 87         |
| Toluene                       | 87         |
| Ethyl Benzene                 | 86         |
| m,p-Xylene                    | 82         |
| o-Xylene                      | 86         |
| Methyl tert-butyl ether       | 84         |
| tert-Amyl methyl ether        | 82         |
| Isopropyl ether               | 85         |
| Ethyl-tert-butyl ether        | 83         |
| tert-Butyl alcohol            | 84         |
| 2-Propanol                    | 96         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 101       | 70-130        |
| 1,2-Dichloroethane-d4 | 99        | 70-130        |
| 4-Bromofluorobenzene  | 98        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0401396AR1-12C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021702 | Date of Collection: | NA               |
| Dil. Factor: | 1.00    | Date of Analysis:   | 2/17/04 07:32 AM |

| Compound   | %Recovery |
|------------|-----------|
| 2-Propanol | 108       |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 103       | 70-130        |
| 1,2-Dichloroethane-d4 | 101       | 70-130        |
| 4-Bromofluorobenzene  | 102       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0401396AR1-12D

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021803 | Date of Collection: | NA               |
| Dil. Factor: | 1.00    | Date of Analysis:   | 2/18/04 03:23 PM |

| Compound | %Recovery |
|----------|-----------|
|----------|-----------|

|            |     |
|------------|-----|
| 2-Propanol | 128 |
|------------|-----|

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 102       | 70-130        |
| 1,2-Dichloroethane-d4 | 102       | 70-130        |
| 4-Bromofluorobenzene  | 89        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0401396AR1-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | s020505 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 2/5/04 12:34 PM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 100        |
| Toluene                       | 90         |
| Ethyl Benzene                 | 89         |
| m,p-Xylene                    | 83         |
| o-Xylene                      | 86         |
| Methyl tert-butyl ether       | 63         |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 98         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 100       | 70-130        |
| 1,2-Dichloroethane-d4 | 101       | 70-130        |
| 4-Bromofluorobenzene  | 100       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0401396AR1-13B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                   |
|--------------|---------|-----------------------------------|
| File Name:   | s020604 | Date of Collection: NA            |
| Dil. Factor: | 1.00    | Date of Analysis: 2/6/04 06:12 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 98         |
| Toluene                       | 88         |
| Ethyl Benzene                 | 86         |
| m,p-Xylene                    | 81         |
| o-Xylene                      | 83         |
| Methyl tert-butyl ether       | 79         |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 102        |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 101       | 70-130        |
| 1,2-Dichloroethane-d4 | 100       | 70-130        |
| 4-Bromofluorobenzene  | 98        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0401396AR1-13C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                  |
|--------------|---------|---------------------|------------------|
| File Name:   | 1021703 | Date of Collection: | NA               |
| Dil. Factor: | 1.00    | Date of Analysis:   | 2/17/04 08:17 AM |

| Compound   | %Recovery |
|------------|-----------|
| 2-Propanol | 112       |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 101       | 70-130        |
| 1,2-Dichloroethane-d4 | 103       | 70-130        |
| 4-Bromofluorobenzene  | 101       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0401396AR1-13D

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                    |
|--------------|---------|------------------------------------|
| File Name:   | 1021804 | Date of Collection: NA             |
| Dil. Factor: | 1.00    | Date of Analysis: 2/18/04 04:10 PM |

| Compound   | %Recovery |
|------------|-----------|
| 2-Propanol | 124       |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 101       | 70-130        |
| 1,2-Dichloroethane-d4 | 101       | 70-130        |
| 4-Bromofluorobenzene  | 90        | 70-130        |



# **AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020**

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# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 0401396B

### Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Mr. Greg Bentley<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 | <b>BILL TO:</b>  | Mr. Greg Bentley<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 |
| <b>PHONE:</b>          | 510-420-3346  | <b>P.O. #</b>    | 9-0260  |
| <b>FAX:</b>            | 510-420-9170  | <b>PROJECT #</b> | 9-0260 Hayward  |
| <b>DATE RECEIVED:</b>  | 01/29/04  | <b>CONTACT:</b>  | Taryn Badal   |
| <b>DATE COMPLETED:</b> | 02/09/04  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u>     | <u>TEST</u>          | <u>RECEIPT<br/>VAC./PRES.</u> |
|-------------------|-----------------|----------------------|-------------------------------|
| 01A               | VP1-3           | Modified ASTM D-1946 | 2.5 "Hg                       |
| 02A               | VP1-3 dup       | Modified ASTM D-1946 | 2.5 "Hg                       |
| 03A               | VP1-9           | Modified ASTM D-1946 | 2.0 "Hg                       |
| 04A               | VP1-12          | Modified ASTM D-1946 | 16.5 "Hg                      |
| 05A               | VP2-3           | Modified ASTM D-1946 | 3.0 "Hg                       |
| 06A               | VP2-8           | Modified ASTM D-1946 | 3.5 "Hg                       |
| 06AA              | VP2-8 Duplicate | Modified ASTM D-1946 | 3.5 "Hg                       |
| 07A               | VP2-12          | Modified ASTM D-1946 | 11.0 "Hg                      |
| 08A               | VP3-3           | Modified ASTM D-1946 | 4.0 "Hg                       |
| 09A               | VP3-8           | Modified ASTM D-1946 | 4.5 "Hg                       |
| 10A               | VP3-12          | Modified ASTM D-1946 | 24.0 "Hg                      |
| 11A               | Lab Blank       | Modified ASTM D-1946 | NA                            |
| 12A               | LCS             | Modified ASTM D-1946 | NA                            |

CERTIFIED BY:

Laboratory Director

DATE: 02/09/04

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Modified ASTM D-1946**  
**Cambria Environmental Technology**  
**Workorder# 0401396B**

Ten 6 Liter Summa Canister samples were received on January 29, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of up to 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

| <b>Requirement</b>      | <b>ASTM D-1946</b>   | <b>ATL Modifications</b>   |
|-------------------------|--|--|
| Calibration             | A single point calibration is performed using a reference standard closely matching the composition of the unknown.  | A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.                                       |
| Reference Standard      | The composition of any reference standard must be known to within 0.01 mol % for any component.  | The standards used by ATL are blended to a $\geq 95\%$ accuracy.   |
| Sample Injection Volume | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.   | The sample container is connected directly to a fixed volume sample loop of 1.0 mL (2.0 mL for He and H <sub>2</sub> ) on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization           | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.   |
| Precision               | Precision requirements established at each concentration level.  | Duplicates should agree within 30% RPD for detections $> 5$ X's the RL.  |

**Receiving Notes**

Samples VP1-12 and VP3-12 were received with significant vacuum remaining in the canisters. The discrepancy was noted in the Login email. The residual canister vacuum resulted in elevated reporting limits.

**Analytical Notes**

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: VP1-3

ID#: 0401396B-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020203 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 1.46    | Date of Analysis:   | 2/2/04 10:37 AM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.15              | 8.0           |
| Methane        | 0.00015           | 0.00021       |
| Carbon Dioxide | 0.0015            | 4.7           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP1-3 dup

ID#: 0401396B-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020204 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 1.46    | Date of Analysis:   | 2/2/04 10:59 AM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.15              | 9.5           |
| Methane        | 0.00015           | 0.00018       |
| Carbon Dioxide | 0.0015            | 4.4           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP1-9

ID#: 0401396B-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020205 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 1.44    | Date of Analysis:   | 2/2/04 11:19 AM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.14              | 16            |
| Methane        | 0.00014           | 0.00018       |
| Carbon Dioxide | 0.0014            | 2.6           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP1-12

ID#: 0401396B-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020206 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 2.98    | Date of Analysis:   | 2/2/04 11:44 AM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.30              | 3.5           |
| Methane        | 0.00030           | 0.0038        |
| Carbon Dioxide | 0.0030            | 6.0           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2-3

ID#: 0401396B-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020207 | Date of Collection: | 1/23/04         |
| Dil. Factor: | 1.49    | Date of Analysis:   | 2/2/04 12:12 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.15              | 12            |
| Methane        | 0.00015           | Not Detected  |
| Carbon Dioxide | 0.0015            | 0.34          |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2-8

ID#: 0401396B-06A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020208 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 1.52    | Date of Analysis:   | 2/2/04 12:31 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.15              | 10            |
| Methane        | 0.00015           | Not Detected  |
| Carbon Dioxide | 0.0015            | 0.0050        |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2-8 Duplicate

ID#: 0401396B-06AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020209 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 1.52    | Date of Analysis:   | 2/2/04 12:54 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.15              | 10            |
| Methane        | 0.00015           | Not Detected  |
| Carbon Dioxide | 0.0015            | 0.0050        |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2-12

ID#: 0401396B-07A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020210 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 2.12    | Date of Analysis:   | 2/2/04 01:19 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.21              | 17            |
| Methane        | 0.00021           | 0.0011        |
| Carbon Dioxide | 0.0021            | 0.69          |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP3-3

ID#: 0401396B-08A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020211 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 1.55    | Date of Analysis:   | 2/2/04 01:48 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 12            |
| Methane        | 0.00016           | Not Detected  |
| Carbon Dioxide | 0.0016            | 0.13          |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP3-8

ID#: 0401396B-09A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020212 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 1.58    | Date of Analysis:   | 2/2/04 02:09 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 9.5           |
| Methane        | 0.00016           | Not Detected  |
| Carbon Dioxide | 0.0016            | 0.86          |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP3-12

ID#: 0401396B-10A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020213 | Date of Collection: | 1/26/04         |
| Dil. Factor: | 6.70    | Date of Analysis:   | 2/2/04 02:29 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.67              | 14            |
| Methane        | 0.00067           | Not Detected  |
| Carbon Dioxide | 0.0067            | 1.0           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0401396B-11A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                                   |
|--------------|---------|-----------------------------------|
| File Name:   | 3020202 | Date of Collection: NA            |
| Dil. Factor: | 1.00    | Date of Analysis: 2/2/04 08:00 AM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.10              | Not Detected  |
| Methane        | 0.00010           | Not Detected  |
| Carbon Dioxide | 0.0010            | Not Detected  |

Container Type: NA - Not Applicable

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0401396B-12A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 3020214 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 2/2/04 03:08 PM |

| Compound       | %Recovery |
|----------------|-----------|
| Oxygen         | 99        |
| Methane        | 100       |
| Carbon Dioxide | 100       |

Container Type: NA - Not Applicable



## CHAIN-OF-CUSTODY RECORD

### Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. E.C.T. Hotline (800) 467-4922

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Page 1 of 1

|  |   |  |
|--|---|--|
| <b>Contact Person</b> <u>Sarah Owen</u><br><b>Company</b> <u>Cambria</u><br><b>Address</b> <u>5900 Hollis St. Ste. A</u> City <u>Emeryville</u> State <u>CA</u> Zip <u>94608</u><br><b>Phone</b> <u>510 420 3350</u> FAX <u>510 420 9170</u><br><b>Collected By: Signature</b> <u>Sarah Owen</u> | <b>Project info:</b><br><b>P.O. #</b> <u>9-0260</u><br><b>Project #</b> <u>9-0260</u><br><b>Project Name</b> <u>Hayward</u> | <b>Turn Around Time:</b><br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br><div style="text-align: right;">Specify</div> |
|--|---|--|

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested                            | Canister Pressure / Vacuum<br>Initial S.C.D. Final S.C.D. Receipt |
|----------|-------------------|---------------|---|---|
| 01A      | VP1-3             | 1-23-04 11:20 | TPH <sub>g</sub> , BTEX, MTBE, TAME, DIPE,    | -25 -25 2.5" Hg   |
| 02A      | VP1-3 dup         | 1-23-04 12:15 | ETBE, TBA by TO 15                            | -25 -25 2.5" Hg   |
| 03A      | VP1-9             | 1-23-04 13:34 |   | -31 -2.5 2.0" Hg  |
| 04A      | VP1-12            | 1-23-04 2:53  | O <sub>2</sub> , CO <sub>2</sub> & methane by | -29.5 -16.25 16.5" Hg   |
| 05A      | VP2-3             | 1-23-04 3:30  | ATSMO-1946                                    | -28.75 -3.6 3.0" Hg   |
| 06A      | VP2-8             | 1-26-04 12:22 |   | -30.5 -5 3.5" Hg  |
| 07A      | VP2-12            | 1-26-04 1:07  | FOR ALL SAMPLES                               | -30 -12 11.0" Hg  |
| 08A      | VP3-3             | 1-26-04 3:45  |   | -29 -3.5 4.0" Hg  |
| 09A      | VP3-8             | 1-26-04 2:30  |   | -29 -5 4.5" Hg  |
| 10A      | VP3-12            | 1-26-04 3:20  |   | -29.5 -25.5 24.0" Hg  |

|   |   |
|---|---|
| <b>Relinquished By: (Signature)</b> <u>Sarah Owen</u> <b>Date/Time</b> <u>1/23/04 13:20</u><br><b>Relinquished By: (Signature)</b> <u>Harold Thomas</u> <b>Date/Time</b> <u>1/29/04 11:20</u><br><b>Relinquished By: (Signature)</b> _____ <b>Date/Time</b> _____<br><b>Relinquished By: (Signature)</b> _____ <b>Date/Time</b> _____ | <b>Notes:</b> VP3-3, VP3-8, VP3-12 all had condensation in sample tubing. |
|---|---|

| Lab Use Only | Shipper Name | Air Bill #   | Opened By | Temp. (°C) | Condition | Custody Seals Intact? | Work Order # |
|--------------|--------------|--------------|-----------|------------|-----------|-----------------------|--------------|
|              | Airborne     | 203562384650 | JS        | —          | Good      | Yes No <u>None</u>    | 0401396A     |



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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## **Air Toxics Ltd. Introduces the Electronic Report**

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

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**E-mail to: [samplereceiving@airtoxics.com](mailto:samplereceiving@airtoxics.com)**

**AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0406010R1**

## Work Order Summary

**CLIENT:** Mr. Bob Foss  
Cambria Environmental Technology  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**BILL TO:** Ms. Sarah Owen  
Cambria Environmental Technology  
5900 Hollis Street  
Suite A  
Emeryville, CA 94608

**PHONE:** 510-420-0700  
**P.O. #** 9-0260

**FAX:** 510-420-9170  
**PROJECT #** 9-0260 Hayward

**DATE RECEIVED:** 6/1/2004  
**CONTACT:** Taryn Badal

**DATE COMPLETED:** 6/21/2004

**DATE REISSUED:** 6/17/04

| <u>FRACTION #</u> | <u>NAME</u>     | <u>TEST</u>    | <u>RECEIPT</u><br><u>VAC./PRES.</u> |
|-------------------|-----------------|----------------|-------------------------------------|
| 01A               | VP1@3           | Modified TO-15 | 4.0 "Hg                             |
| 02A               | VP1@9           | Modified TO-15 | 2.5 "Hg                             |
| 03A               | VP2@3           | Modified TO-15 | 4.5 "Hg                             |
| 04A               | VP2@9           | Modified TO-15 | 7.0 "Hg                             |
| 04B               | VP2@9           | Modified TO-15 | 7.0 "Hg                             |
| 05A               | VP2@9 duplicate | Modified TO-15 | 4.5 "Hg                             |
| 06A               | VP2@12          | Modified TO-15 | 5.5 "Hg                             |
| 07A               | VP3@3           | Modified TO-15 | 5.5 "Hg                             |
| 08A               | VP3@9           | Modified TO-15 | 1.5 "Hg                             |
| 08AA              | VP3@9 Duplicate | Modified TO-15 | 1.5 "Hg                             |
| 09A               | Trip Blank      | Modified TO-15 | 29.0 "Hg                            |
| 10A               | Lab Blank       | Modified TO-15 | NA                                  |
| 11A               | CCV             | Modified TO-15 | NA                                  |
| 12A               | LCS             | Modified TO-15 | NA                                  |

CERTIFIED BY:

Laboratory Director

DATE: 06/21/04

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Cambria Environmental Technology**  
**Workorder# 0406010R1**

Eight 6 Liter Summa Canister and one 6 Liter Summa Canister (100% Certified) samples were received on June 01, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

| <i>Requirement</i>                       | <i>TO-14A/TO-15</i>  | <i>ATL Modifications</i>  |
|--|--|---|
| BFB acceptance criteria                  | CLP protocol (TO-15)   | SW-846 protocol   |
| Concentration of IS spike                | 10 ppbv (TO-15)  | 25 ppbv   |
| Dilutions for initial calibration        | Dynamic dilutions or static using canisters  | Syringe dilutions   |
| Daily CCV                                | $\leq 30\%$ Difference   | $\leq 30\%$ Difference with two allowed out up to $\leq 40\%$ ; flag and narrate outliers   |
| Primary ions for Quantification          | Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43. | Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58. |
| Sample collection media                  | Summa canister   | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request                                      |
| Sample Drying System                     | Nafion Dryer (TO-14A)  | Multisorbent  |
| Sample Load Volume                       | 400 mL (TO-14A)  | Varied to 0.2 L.  |
| Blank Acceptance Criteria.               | $< 0.20$ ppbv (TO-14A)   | $< \text{RL}$   |
| BFB Absolute Abundance Criteria (TO-14A) | Within 10% of that from the previous day.  | CCV internal standard area counts are compared to ICAL, corrective action for $> 40\%$ D.   |
| Initial Calibration                      | $\leq 30\%$ RSD (TO-14A)   | $\leq 30\%$ RSD with 2 compounds allowed out to $\leq 40\%$ RSD.  |
| IS Recoveries                            | Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)   | Within 40% of CCV recoveries for blank and samples.   |

**Receiving Notes**

There were no receiving discrepancies.

### **Analytical Notes**

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Due to high-level target compounds, sample VP2@9 was analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

DATA WAS REISSUED ON 06-21-2004 TO RECALCULATE THE TPHG VALUES ON SAMPLES 04A, 04B, 05A AND 06A. THE 2-PROPANOL WAS SUBTRACTED OUT OF THE TPHG CALCULATION PER CLIENT'S REQUEST.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated Peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: VP1@3

ID#: 0406010R1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | i060707 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1.55    | Date of Analysis:   | 6/7/04 06:45 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.78                 | Not Detected     | 2.5                   | Not Detected      |
| Toluene                       | 0.78                 | 0.99             | 3.0                   | 3.8               |
| Ethyl Benzene                 | 0.78                 | 1.9              | 3.4                   | 8.5               |
| m,p-Xylene                    | 0.78                 | 11               | 3.4                   | 48                |
| o-Xylene                      | 0.78                 | 2.3              | 3.4                   | 10                |
| Methyl tert-butyl ether       | 3.1                  | Not Detected     | 11                    | Not Detected      |
| tert-Amyl methyl ether        | 3.1                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.1                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.1                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.1                  | 3.5              | 9.6                   | 11                |
| 2-Propanol                    | 3.1                  | 14               | 7.7                   | 34                |
| TPH ref. to Gasoline (MW=100) | 16                   | 1800             | 64                    | 7400              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 102       | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 102       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1@9

ID#: 0406010R1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060708 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1.46    | Date of Analysis:   | 6/7/04 07:46 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.73                 | Not Detected     | 2.4                   | Not Detected      |
| Toluene                       | 0.73                 | Not Detected     | 2.8                   | Not Detected      |
| Ethyl Benzene                 | 0.73                 | Not Detected     | 3.2                   | Not Detected      |
| m,p-Xylene                    | 0.73                 | Not Detected     | 3.2                   | Not Detected      |
| o-Xylene                      | 0.73                 | Not Detected     | 3.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.9                  | Not Detected     | 11                    | Not Detected      |
| tert-Amyl methyl ether        | 2.9                  | Not Detected     | 12                    | Not Detected      |
| Isopropyl ether               | 2.9                  | Not Detected     | 12                    | Not Detected      |
| Ethyl-tert-butyl ether        | 2.9                  | Not Detected     | 12                    | Not Detected      |
| tert-Butyl alcohol            | 2.9                  | Not Detected     | 9.0                   | Not Detected      |
| 2-Propanol                    | 2.9                  | 520 E            | 7.3                   | 1300 E            |
| TPH ref. to Gasoline (MW=100) | 15                   | 3600             | 61                    | 15000             |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 101       | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@3

ID#: 0406010R1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060709 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1.58    | Date of Analysis:   | 6/7/04 08:34 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.79                 | Not Detected     | 2.6                   | Not Detected      |
| Toluene                       | 0.79                 | 0.81             | 3.0                   | 3.1               |
| Ethyl Benzene                 | 0.79                 | Not Detected     | 3.5                   | Not Detected      |
| m,p-Xylene                    | 0.79                 | 1.4              | 3.5                   | 6.3               |
| o-Xylene                      | 0.79                 | Not Detected     | 3.5                   | Not Detected      |
| Methyl tert-butyl ether       | 3.2                  | Not Detected     | 12                    | Not Detected      |
| tert-Amyl methyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.2                  | 11               | 9.7                   | 34                |
| 2-Propanol                    | 3.2                  | 20               | 7.9                   | 49                |
| TPH ref. to Gasoline (MW=100) | 16                   | 2800             | 66                    | 12000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 103       | 70-130           |
| 1,2-Dichloroethane-d4 | 106       | 70-130           |
| 4-Bromofluorobenzene  | 102       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9

ID#: 0406010R1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060714 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 87.5    | Date of Analysis:   | 6/8/04 09:30 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 44                   | Not Detected     | 140                   | Not Detected      |
| Toluene                       | 44                   | Not Detected     | 170                   | Not Detected      |
| Ethyl Benzene                 | 44                   | Not Detected     | 190                   | Not Detected      |
| m,p-Xylene                    | 44                   | Not Detected     | 190                   | Not Detected      |
| o-Xylene                      | 44                   | Not Detected     | 190                   | Not Detected      |
| Methyl tert-butyl ether       | 180                  | Not Detected     | 640                   | Not Detected      |
| tert-Amyl methyl ether        | 180                  | Not Detected     | 740                   | Not Detected      |
| Isopropyl ether               | 180                  | Not Detected     | 740                   | Not Detected      |
| Ethyl-tert-butyl ether        | 180                  | Not Detected     | 740                   | Not Detected      |
| tert-Butyl alcohol            | 180                  | Not Detected     | 540                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 880                  | 3500             | 3600                  | 14000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 102       | 70-130           |
| 1,2-Dichloroethane-d4 | 106       | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9

ID#: 0406010R1-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060710 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1.75    | Date of Analysis:   | 6/7/04 09:17 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.88                 | Not Detected     | 2.8                   | Not Detected      |
| Toluene                       | 0.88                 | 0.96             | 3.4                   | 3.7               |
| Ethyl Benzene                 | 0.88                 | Not Detected     | 3.9                   | Not Detected      |
| m,p-Xylene                    | 0.88                 | Not Detected     | 3.9                   | Not Detected      |
| o-Xylene                      | 0.88                 | Not Detected     | 3.9                   | Not Detected      |
| Methyl tert-butyl ether       | 3.5                  | Not Detected     | 13                    | Not Detected      |
| tert-Amyl methyl ether        | 3.5                  | Not Detected     | 15                    | Not Detected      |
| Isopropyl ether               | 3.5                  | Not Detected     | 15                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.5                  | Not Detected     | 15                    | Not Detected      |
| tert-Butyl alcohol            | 3.5                  | 15               | 11                    | 46                |
| TPH ref. to Gasoline (MW=100) | 18                   | 3600             | 73                    | 15000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 102       | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 102       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9 duplicate

ID#: 0406010R1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060718 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 79.0    | Date of Analysis:   | 6/8/04 12:17 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 40                   | Not Detected     | 130                   | Not Detected      |
| Toluene                       | 40                   | Not Detected     | 150                   | Not Detected      |
| Ethyl Benzene                 | 40                   | Not Detected     | 170                   | Not Detected      |
| m,p-Xylene                    | 40                   | Not Detected     | 170                   | Not Detected      |
| o-Xylene                      | 40                   | Not Detected     | 170                   | Not Detected      |
| Methyl tert-butyl ether       | 160                  | Not Detected     | 580                   | Not Detected      |
| tert-Amyl methyl ether        | 160                  | Not Detected     | 670                   | Not Detected      |
| Isopropyl ether               | 160                  | Not Detected     | 670                   | Not Detected      |
| Ethyl-tert-butyl ether        | 160                  | Not Detected     | 670                   | Not Detected      |
| tert-Butyl alcohol            | 160                  | Not Detected     | 490                   | Not Detected      |
| 2-Propanol                    | 160                  | 22000 E          | 390                   | 54000 E           |
| TPH ref. to Gasoline (MW=100) | 790                  | 3800             | 3300                  | 16000             |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 101       | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@12

ID#: 0406010R1-06A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1080720 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1640    | Date of Analysis:   | 6/8/04 01:43 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 820                  | Not Detected     | 2700                  | Not Detected      |
| Toluene                       | 820                  | Not Detected     | 3100                  | Not Detected      |
| Ethyl Benzene                 | 820                  | Not Detected     | 3600                  | Not Detected      |
| m,p-Xylene                    | 820                  | Not Detected     | 3600                  | Not Detected      |
| o-Xylene                      | 820                  | Not Detected     | 3600                  | Not Detected      |
| Methyl tert-butyl ether       | 3300                 | Not Detected     | 12000                 | Not Detected      |
| tert-Amyl methyl ether        | 3300                 | Not Detected     | 14000                 | Not Detected      |
| Isopropyl ether               | 3300                 | Not Detected     | 14000                 | Not Detected      |
| Ethyl-tert-butyl ether        | 3300                 | Not Detected     | 14000                 | Not Detected      |
| tert-Butyl alcohol            | 3300                 | Not Detected     | 10000                 | Not Detected      |
| 2-Propanol                    | 3300                 | 900000 E         | 8200                  | 2200000 E         |
| TPH ref. to Gasoline (MW=100) | 16000                | Not Detected     | 68000                 | Not Detected      |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 102       | 70-130           |
| 1,2-Dichloroethane-d4 | 105       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@3

ID#: 0406010R1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | i060717 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1.64    | Date of Analysis:   | 6/8/04 11:34 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.82                 | Not Detected     | 2.7                   | Not Detected      |
| Toluene                       | 0.82                 | Not Detected     | 3.1                   | Not Detected      |
| Ethyl Benzene                 | 0.82                 | Not Detected     | 3.6                   | Not Detected      |
| m,p-Xylene                    | 0.82                 | 1.2              | 3.6                   | 5.1               |
| o-Xylene                      | 0.82                 | Not Detected     | 3.6                   | Not Detected      |
| Methyl tert-butyl ether       | 3.3                  | Not Detected     | 12                    | Not Detected      |
| tert-Amyl methyl ether        | 3.3                  | Not Detected     | 14                    | Not Detected      |
| Isopropyl ether               | 3.3                  | Not Detected     | 14                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.3                  | Not Detected     | 14                    | Not Detected      |
| tert-Butyl alcohol            | 3.3                  | Not Detected     | 10                    | Not Detected      |
| 2-Propanol                    | 3.3                  | 4.1              | 8.2                   | 10                |
| TPH ref. to Gasoline (MW=100) | 16                   | 2500             | 68                    | 10000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 101       | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@9

ID#: 0406010R1-08A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060716 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1.41    | Date of Analysis:   | 6/8/04 10:48 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.70                 | 0.72             | 2.3                   | 2.3               |
| Toluene                       | 0.70                 | 4.8              | 2.7                   | 18                |
| Ethyl Benzene                 | 0.70                 | Not Detected     | 3.1                   | Not Detected      |
| m,p-Xylene                    | 0.70                 | 1.8              | 3.1                   | 7.9               |
| o-Xylene                      | 0.70                 | Not Detected     | 3.1                   | Not Detected      |
| Methyl tert-butyl ether       | 2.8                  | Not Detected     | 10                    | Not Detected      |
| tert-Amyl methyl ether        | 2.8                  | Not Detected     | 12                    | Not Detected      |
| Isopropyl ether               | 2.8                  | Not Detected     | 12                    | Not Detected      |
| Ethyl-tert-butyl ether        | 2.8                  | Not Detected     | 12                    | Not Detected      |
| tert-Butyl alcohol            | 2.8                  | Not Detected     | 8.7                   | Not Detected      |
| 2-Propanol                    | 2.8                  | 7.8              | 7.0                   | 19                |
| TPH ref. to Gasoline (MW=100) | 14                   | 2800             | 59                    | 12000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 102       | 70-130           |
| 1,2-Dichloroethane-d4 | 105       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@9 Duplicate

ID#: 0406010R1-08AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060719 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1.41    | Date of Analysis:   | 6/8/04 12:56 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.70                 | Not Detected     | 2.3                   | Not Detected      |
| Toluene                       | 0.70                 | 4.7              | 2.7                   | 18                |
| Ethyl Benzene                 | 0.70                 | Not Detected     | 3.1                   | Not Detected      |
| m,p-Xylene                    | 0.70                 | 1.7              | 3.1                   | 7.6               |
| o-Xylene                      | 0.70                 | Not Detected     | 3.1                   | Not Detected      |
| Methyl tert-butyl ether       | 2.8                  | Not Detected     | 10                    | Not Detected      |
| tert-Amyl methyl ether        | 2.8                  | Not Detected     | 12                    | Not Detected      |
| Isopropyl ether               | 2.8                  | Not Detected     | 12                    | Not Detected      |
| Ethyl-tert-butyl ether        | 2.8                  | Not Detected     | 12                    | Not Detected      |
| tert-Butyl alcohol            | 2.8                  | Not Detected     | 8.7                   | Not Detected      |
| 2-Propanol                    | 2.8                  | 7.9              | 7.0                   | 20                |
| TPH ref. to Gasoline (MW=100) | 14                   | 2900             | 59                    | 12000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 101       | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Trip Blank

ID#: 0406010R1-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1080715 | Date of Collection: | 5/26/04         |
| Dil. Factor: | 1.00    | Date of Analysis:   | 6/8/04 10:09 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.3                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.2                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 5.0                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 42                    | Not Detected      |

Container Type: 6 Liter Summa Canister (100% Certified)

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 100       | 70-130           |
| 1,2-Dichloroethane-d4 | 107       | 70-130           |
| 4-Bromofluorobenzene  | 97        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0406010R1-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060706 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 6/7/04 05:55 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.3                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.5                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.2                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 5.0                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 42                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 101       | 70-130           |
| 1,2-Dichloroethane-d4 | 106       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0406010R1-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |        |                                   |
|--------------|--------|-----------------------------------|
| File Name:   | 060703 | Date of Collection: NA            |
| Dil. Factor: | 1.00   | Date of Analysis: 6/7/04 03:43 PM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 98         |
| Toluene                       | 108        |
| Ethyl Benzene                 | 107        |
| m,p-Xylene                    | 110        |
| o-Xylene                      | 111        |
| Methyl tert-butyl ether       | 106        |
| tert-Amyl methyl ether        | 99         |
| Isopropyl ether               | 95         |
| Ethyl-tert-butyl ether        | 98         |
| tert-Butyl alcohol            | 98         |
| 2-Propanol                    | 84         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 102       | 70-130        |
| 1,2-Dichloroethane-d4 | 109       | 70-130        |
| 4-Bromofluorobenzene  | 104       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0406010R1-12A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1060704 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 6/7/04 04:34 PM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 112        |
| Toluene                       | 113        |
| Ethyl Benzene                 | 108        |
| m,p-Xylene                    | 109        |
| o-Xylene                      | 107        |
| Methyl tert-butyl ether       | 116        |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 102        |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 102       | 70-130        |
| 1,2-Dichloroethane-d4 | 102       | 70-130        |
| 4-Bromofluorobenzene  | 104       | 70-130        |



## CHAIN-OF-CUSTODY RECORD

### Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4822

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Page \_\_\_ of \_\_\_

|   |   |   |
|---|---|---|
| Contact Person <u>Sarah Owen</u><br>Company <u>Cambria</u><br>Address <u>5900 Hollis St. Ste. A</u> City <u>Emeryville</u> State <u>CA</u> Zip <u>94608</u><br>Phone <u>510 420 3350</u> FAX <u>510 420 9170</u><br>Collected By: Signature <u>Sarah Owen</u> | Project info:<br>P.O. # <u>9-0260</u><br>Project # <u>9-0260</u><br>Project Name <u>Hayward</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____ Specify _____<br><u>now 6/3/04</u> |
|---|---|---|

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested  | Canister Pressure / Vacuum initial | Final | Receipt  |
|----------|-------------------|---------------|---|------------------------------------|-------|----------|
| 01A      | VP1 23            | 5/26/04 5:30  | <div style="border: 1px solid black; border-radius: 15px; padding: 5px;">           TPHg, BTEX, MTBE,<br/>           TAME, DIPE, ETBE,<br/>           TRA by TO 15         </div> | more than -30                      | -6.5  | 4.0" Hg  |
| 02A      | VP1 29            | 5/26/04 6:12  |   | >-30                               | -4.5  | 2.5" Hg  |
| 03A      | VP2 23            | 5/26/04 3:00  |   | >-30                               | -8    | 4.5" Hg  |
| 04A      | VP2 29            | 5/26/04 3:20  |   | >-30                               | -9    | 7.0" Hg  |
| 05A      | VP2 29 duplicate  | 5/26/04 3:20  | <del>CO<sub>2</sub> methane S.C.O.</del>  | >-30                               | -8.5  | 4.5" Hg  |
| 06A      | VP2 212           | 5/26/04 4:12  | <del>by ATX MD - 1946</del>   | >-30                               | -8    | 5.5" Hg  |
| 07A      | VP3 23            | 5/26/04 11:20 | <div style="border: 1px solid black; border-radius: 15px; padding: 5px;">           FOR ALL SAMPLES         </div>  | >-30                               | -8    | 5.5" Hg  |
| 08A      | VP3 29            | 5/26/04 12:00 |   | >-30                               | -6.5  | 1.5" Hg  |
| 09A      | Trip Blank        | 5/26/04 18:00 |   |                                    |       | 21.0" Hg |

|   |  |  |
|---|--|--|
| Relinquished By: (Signature) Date/Time<br><u>Sarah Owen</u> 5/28/04 10:45<br>Relinquished By: (Signature) Date/Time<br><u>Sarah Owen</u> 5/28/04 10:45<br>Relinquished By: (Signature) Date/Time<br><u>Sarah Owen</u> 5/28/04 10:45 | Received By: (Signature) Date/Time<br><u>tr 6/1/04</u><br>Received By: (Signature) Date/Time<br><u>tr 6/1/04</u><br>Received By: (Signature) Date/Time<br><u>tr 6/1/04</u> | Notes: <u>Please E-flag 2 propanol</u> |
|---|--|--|

|              |              |                    |            |            |             |                       |                |
|--------------|--------------|--------------------|------------|------------|-------------|-----------------------|----------------|
| Lab Use Only | Shipper Name | Air Bill #         | Opened By: | Temp. (°C) | Condition   | Custody Seals Intact? | Work Order #   |
|              | <u>FedEx</u> | <u>21710112056</u> | <u>tr</u>  | <u>—</u>   | <u>Good</u> | Yes No <u>(None)</u>  | <u>0406010</u> |
|              | <u>DHL</u>   |                    |            |            |             |                       |                |

to 6/1/04

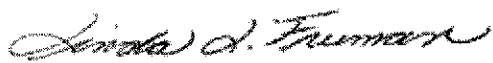
## WORK ORDER #: 0410140B

### Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Mr. Bob Foss<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 | <b>BILL TO:</b>  | Ms. Sarah Owen<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 |
| <b>PHONE:</b>          | 510-420-0700  | <b>P.O. #</b>    |   |
| <b>FAX:</b>            | 510-420-9170  | <b>PROJECT #</b> | 9-0260 Hayward Soil Gas   |
| <b>DATE RECEIVED:</b>  | 10/07/2004  | <b>CONTACT:</b>  | Taryn Badal   |
| <b>DATE COMPLETED:</b> | 10/15/2004  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u>      | <u>TEST</u>          | <u>RECEIPT</u><br><u>VAC./PRES.</u> |
|-------------------|------------------|----------------------|-------------------------------------|
| 01A               | VP1@3            | Modified ASTM D-1946 | 4.5 "Hg                             |
| 02A(cancelled)    | VP1@9            | Modified ASTM D-1946 | 4.5 "Hg                             |
| 03A               | VP1@12           | Modified ASTM D-1946 | 5.0 "Hg                             |
| 04A               | VP2@3            | Modified ASTM D-1946 | 6.5 "Hg                             |
| 05A               | VP2@9            | Modified ASTM D-1946 | 5.5 "Hg                             |
| 06A               | VP2@9 dup        | Modified ASTM D-1946 | 5.5 "Hg                             |
| 07A               | VP2@12           | Modified ASTM D-1946 | 6.0 "Hg                             |
| 07AA              | VP2@12 Duplicate | Modified ASTM D-1946 | 6.0 "Hg                             |
| 08A               | VP1@9A           | Modified ASTM D-1946 | 3.0 "Hg                             |
| 09A               | VP3@3            | Modified ASTM D-1946 | 5.0 "Hg                             |
| 10A               | VP3@9            | Modified ASTM D-1946 | 5.5 "Hg                             |
| 11A               | VP3@12           | Modified ASTM D-1946 | 5.5 "Hg                             |
| 12A               | Lab Blank        | Modified ASTM D-1946 | NA                                  |
| 13A               | LCS              | Modified ASTM D-1946 | NA                                  |

CERTIFIED BY:



Laboratory Director

DATE: 10/15/04

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified ASTM D-1946**  
**Cambria Environmental Technology**  
**Workorder# 0410140B**

Eleven 6 Liter Summa Canister samples were received on October 07, 2004. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane, Oxygen and Carbon Dioxide in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

| <i>Requirement</i>      | <i>ASTM D-1946</i>   | <i>ATL Modifications</i>   |
|-------------------------|--|--|
| Calibration             | A single point calibration is performed using a reference standard closely matching the composition of the unknown.  | A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.   |
| Reference Standard      | The composition of any reference standard must be known to within 0.01 mol % for any component.  | The standards used by ATL are blended to a $\geq 95\%$ accuracy.   |
| Sample Injection Volume | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.   | The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization           | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.       |
| Precision               | Precision requirements established at each concentration level.  | Duplicates should agree within 30% RPD for detections $> 5 \times$ the RL.   |

**Receiving Notes**

The Chain of Custody (COC) information for sample VP2@9 dup did not match the entry on the sample tag with regard to sample identification. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the information on the COC was used to process and report the sample.

Sample VP1@9 was cancelled per client's request.

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt Confirmation email/fax.

### **Analytical Notes**

There were no analytical discrepancies.

### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: VP1@3

ID#: 0410140B-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101304 | Date of Collection: | 9/30/04           |
| Dil. Factor: | 1.58    | Date of Analysis:   | 10/13/04 11:41 AM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 19            |
| Methane        | 0.00016           | Not Detected  |
| Carbon Dioxide | 0.0016            | 3.8           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP1@12

ID#: 0410140B-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                                     |
|--------------|---------|-------------------------------------|
| File Name:   | 3101311 | Date of Collection: 10/1/04         |
| Dil. Factor: | 1.61    | Date of Analysis: 10/13/04 02:52 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 16            |
| Methane        | 0.00016           | 0.012         |
| Carbon Dioxide | 0.0016            | 4.5           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2@3

ID#: 0410140B-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101307 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 1.71    | Date of Analysis:   | 10/13/04 12:54 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.17              | 20            |
| Methane        | 0.00017           | Not Detected  |
| Carbon Dioxide | 0.0017            | 2.0           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9

ID#: 0410140B-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101305 | Date of Collection: | 9/30/04           |
| Dil. Factor: | 1.64    | Date of Analysis:   | 10/13/04 12:04 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 19            |
| Methane        | 0.00016           | 0.00018       |
| Carbon Dioxide | 0.0016            | 0.23          |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9 dup

ID#: 0410140B-06A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101306 | Date of Collection: | 9/30/04           |
| Dil. Factor: | 1.64    | Date of Analysis:   | 10/13/04 12:30 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 19            |
| Methane        | 0.00016           | Not Detected  |
| Carbon Dioxide | 0.0016            | 0.24          |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2@12

ID#: 0410140B-07A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101313 | Date of Collection: | 10/11/04          |
| Dil. Factor: | 1.68    | Date of Analysis:   | 10/13/04 03:40 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.17              | 7.4           |
| Methane        | 0.00017           | 0.0041        |
| Carbon Dioxide | 0.0017            | 5.4           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP2@12 Duplicate

ID#: 0410140B-07AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101314 | Date of Collection: | 10/1/04           |
| Dil. Factor: | 1.68    | Date of Analysis:   | 10/13/04 04:05 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.17              | 7.4           |
| Methane        | 0.00017           | 0.0042        |
| Carbon Dioxide | 0.0017            | 5.4           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP1@9A

ID#: 0410140B-08A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101310 | Date of Collection: | 10/1/04           |
| Dil. Factor: | 1.49    | Date of Analysis:   | 10/13/04 02:27 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.15              | 17            |
| Methane        | 0.00015           | Not Detected  |
| Carbon Dioxide | 0.0015            | 5.6           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP3@3

ID#: 0410140B-09A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101308 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 1.61    | Date of Analysis:   | 10/13/04 01:40 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 21            |
| Methane        | 0.00016           | Not Detected  |
| Carbon Dioxide | 0.0016            | 1.2           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP3@9

ID#: 0410140B-10A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101309 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 1.64    | Date of Analysis:   | 10/13/04 02:05 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 18            |
| Methane        | 0.00016           | 0.00018       |
| Carbon Dioxide | 0.0016            | 3.0           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: VP3@12

ID#: 0410140B-11A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101312 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 1.64    | Date of Analysis:   | 10/13/04 03:15 PM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.16              | 13            |
| Methane        | 0.00016           | 0.00055       |
| Carbon Dioxide | 0.0016            | 5.1           |

Container Type: 6 Liter Summa Canister

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0410140B-12A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                                     |
|--------------|---------|-------------------------------------|
| File Name:   | 3101303 | Date of Collection: NA              |
| Dil. Factor: | 1.00    | Date of Analysis: 10/13/04 11:10 AM |

| Compound       | Rpt. Limit<br>(%) | Amount<br>(%) |
|----------------|-------------------|---------------|
| Oxygen         | 0.10              | Not Detected  |
| Methane        | 0.00010           | Not Detected  |
| Carbon Dioxide | 0.0010            | Not Detected  |

Container Type: NA - Not Applicable

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0410140B-13A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 3101317 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 10/13/04 05:14 PM |

| Compound       | %Recovery |
|----------------|-----------|
| Oxygen         | 100       |
| Methane        | 98        |
| Carbon Dioxide | 104       |

Container Type: NA - Not Applicable



### Sample Transportation Notice

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FOLSOM, CA 95630-4719  
(916) 985-1000 FAX (916) 985-1020

### CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Contact Person Sarah Owen  
Company Cambria Email Sowen@Cambria-env.com  
Address 5900 Hollis St. Ste. A City Emeryville State CA Zip 94608  
Phone 510 420 3350 Fax 510 420 9170  
Collected by: (Signature) Sarah Cody Owen

|   |   |   |
|---|---|---|
| Project Info:<br>P.O. # <u>9-0260</u><br>Project # <u>9-0260</u><br>Project Name <u>Hayward</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush<br>specify _____ | Lab Use Only<br>Pressurized by: <u>gpm</u><br>Date: <u>10/8/04</u><br>Pressurization Gas: <u>(N<sub>2</sub>) He</u> |
|---|---|---|

| Lab I.D. | Field Sample I.D. (Location) | Date    | Time  | Analyses Requested                              | Canister Pressure/Vacuum |       |         |       |
|----------|------------------------------|---------|-------|---|--------------------------|-------|---------|-------|
|          |                              |         |       |   | Initial                  | Final | Receipt | Final |
| 01A      | VP1 @ 3                      | 9/30/04 | 2:10  | TPHs, BTEX, MTBE, TAME, D1PE, E1BE, TBA by TO15 | -28                      | -2.5  | 4.5" Hg | 5" Hg |
| 02A      | VP1 @ 9                      | 9/30/04 | 3:30  | Do Not Analyze VP1 @ 9                          | -28                      | -5    | 4.5" Hg |       |
| 03A      | VP1 @ 12                     | 10/1/04 | 10:03 |   | -27                      | -4.5  | 5.0" Hg |       |
| 04A      | VP2 @ 3                      | 9/29/04 | 3:15  | O <sub>2</sub> , CO <sub>2</sub> , methane by   | -29.5                    | -5.5  | 6.5" Hg |       |
| 05A      | VP2 @ 9                      | 9/30/04 | 4:05  | A TSM D 1946                                    | -28                      | -4    | 5.5" Hg |       |
| 06A      | VP2 @ 9 dup                  | 9/30/04 | 4:05  |   | -28.5                    | -4    | 5.5" Hg |       |
| 07A      | VP2 @ 12                     | 10/1/04 | 10:25 | FOR ALL SAMPLES                                 | -27                      | -5    | 5.0" Hg |       |
| 08A      | VP1 @ 9A                     | 10/1/04 | 9:05  | EXCEPT VP1 @ 9                                  | -26.5                    | -5    | 3.0" Hg |       |
| 09A      |                              |         |       |   |                          |       |         |       |
| 10A      |                              |         |       |   |                          |       |         |       |

|  |   |   |
|--|---|---|
| Relinquished by: (signature) Date/Time<br><u>Sarah Cody Owen</u> 10/5/04 18:00 | Received by: (signature) Date/Time<br><u>NINA KUIREL</u> 10.6.04, 12:05 | Notes: Not analyzing VP1 @ 9 as we think it was sampled w/ a used flow controller |
| Relinquished by: (signature) Date/Time<br><u>NINA KUIREL</u> 10.6.04 15:30     | Received by: (signature) Date/Time<br><u>Chris Jones</u> 10/6           | to 431  |
| Relinquished by: (signature) Date/Time<br>_____                                | Received by: (signature) Date/Time<br><u>Chris Jones</u> 10/7/04 9:50   |   |

|              |                         |                                |                    |                       |  |                             |
|--------------|-------------------------|--------------------------------|--------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>DHL</u> | Air Bill # <u>988 495 7824</u> | Temp (°C) <u>-</u> | Condition <u>good</u> | Custody Seals Intact? <u>Yes No None</u> | Work Order # <u>0410140</u> |
|--------------|-------------------------|--------------------------------|--------------------|-----------------------|--|-----------------------------|



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FOLSOM, CA 95630-4719  
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### CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Contact Person Sarah Owen  
Company Cambria Email sowen@cambria-env.com  
Address 5900 Hollis St. Ste. A City Emeryville State CA Zip 94608  
Phone 510 420 3350 Fax 510 420 9130  
Collected by: (Signature) Sarah Owen

|                             |                         |  |  |
|-----------------------------|-------------------------|--|--|
| <b>Project Info:</b>        |                         | <b>Turn Around Time:</b>   | <b>Lab Use Only</b>                            |
| P.O. # <u>9-0260</u>        | Project # <u>9-0260</u> | <input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush<br>specify _____ | Pressurized by: <u>gpm</u>                     |
| Project Name <u>Hayward</u> |                         |  | Date: <u>10/8/04</u>                           |
|                             |                         |  | Pressurization Gas:<br><u>N<sub>2</sub></u> He |

| Lab I.D. | Field Sample I.D. (Location) | Date    | Time  | Analyses Requested  | Canister Pressure/Vacuum |       |         |             |
|----------|------------------------------|---------|-------|---|--------------------------|-------|---------|-------------|
|          |                              |         |       |   | Initial                  | Final | Receipt | Final (uug) |
| 09A      | VP3 23                       | 9/29/04 | 11:36 | TPH, BTEX, MTBE, TAME,  | -28.5                    | -5.5  | 5.0"Hg  | 5pm         |
| 10A      | VP3 29                       | 9/29/04 | 12:20 | DIPE, ETBE, TBA   | -27.5                    | -6    | 5.5"Hg  |             |
| 11A      | VP3 212                      | 9/29/04 | 1:30  | by TO 15  | -27.5                    | -5    | 5.5"Hg  | ✓           |
|          |                              |         |       | O <sub>2</sub> , CO <sub>2</sub> , methane by<br>ATSM.D 1946<br>FOR ALL SAMPLES<br>EXCEPT VP129 |                          |       |         |             |

|   |  |        |
|---|--|--------|
| Relinquished by: (signature) <u>Sarah Owen</u> Date/Time <u>10/5/04 18:00</u>   | Received by: (signature) <u>NINA KUIREL</u> Date/Time <u>10.6.04 12:05</u>   | Notes: |
| Relinquished by: (signature) <u>NINA KUIREL</u> Date/Time <u>10.6.04, 15:30</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>10/6/ 430</u>       |        |
| Relinquished by: (signature) _____ Date/Time _____                              | Received by: (signature) <u>[Signature]</u> Date/Time <u>10/11/04 10:430</u> |        |

|              |                         |                                |                    |                       |  |                             |
|--------------|-------------------------|--------------------------------|--------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>ATL</u> | Air Bill # <u>988 185 7824</u> | Temp (°C) <u>-</u> | Condition <u>good</u> | Custody Seals Intact? <u>Yes No None</u> | Work Order # <u>0410140</u> |
|--------------|-------------------------|--------------------------------|--------------------|-----------------------|--|-----------------------------|



# **AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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## **Air Toxics Ltd. Introduces the Electronic Report**

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020**

**Hours 8:00 A.M to 6:00 P.M. Pacific**

**E-mail to: [samplerceiving@airtoxics.com](mailto:samplerceiving@airtoxics.com)**



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 0410140A

### Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Mr. Bob Foss<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 | <b>BILL TO:</b>  | Ms. Sarah Owen<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 |
| <b>PHONE:</b>          | 510-420-0700  | <b>P.O. #</b>    |   |
| <b>FAX:</b>            | 510-420-9170  | <b>PROJECT #</b> | 9-0260 Hayward Soil Gas   |
| <b>DATE RECEIVED:</b>  | 10/07/2004  | <b>CONTACT:</b>  | Taryn Badal   |
| <b>DATE COMPLETED:</b> | 10/20/2004  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u>     | <u>TEST</u>    | <u>RECEIPT</u><br><u>VAC./PRES.</u> |
|-------------------|-----------------|----------------|-------------------------------------|
| 01A               | VP1@3           | Modified TO-15 | 4.5 "Hg                             |
| 02A(cancelled)    | VP1@9           | Modified TO-15 | 4.5 "Hg                             |
| 03A               | VP1@12          | Modified TO-15 | 5.0 "Hg                             |
| 04A               | VP2@3           | Modified TO-15 | 6.5 "Hg                             |
| 04AA              | VP2@3 Duplicate | Modified TO-15 | 6.5 "Hg                             |
| 05A               | VP2@9           | Modified TO-15 | 5.5 "Hg                             |
| 06A               | VP2@9 dup       | Modified TO-15 | 5.5 "Hg                             |
| 07A               | VP2@12          | Modified TO-15 | 6.0 "Hg                             |
| 08A               | VP1@9A          | Modified TO-15 | 3.0 "Hg                             |
| 09A               | VP3@3           | Modified TO-15 | 5.0 "Hg                             |
| 10A               | VP3@9           | Modified TO-15 | 5.5 "Hg                             |
| 11A               | VP3@12          | Modified TO-15 | 5.5 "Hg                             |
| 12A               | Lab Blank       | Modified TO-15 | NA                                  |
| 12B               | Lab Blank       | Modified TO-15 | NA                                  |
| 12C               | Lab Blank       | Modified TO-15 | NA                                  |
| 12D               | Lab Blank       | Modified TO-15 | NA                                  |
| 13A               | CCV             | Modified TO-15 | NA                                  |

Continued on next page



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0410140A**

## Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Mr. Bob Foss<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 | <b>BILL TO:</b>  | Ms. Sarah Owen<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 |
| <b>PHONE:</b>          | 510-420-0700  | <b>P.O. #</b>    |   |
| <b>FAX:</b>            | 510-420-9170  | <b>PROJECT #</b> | 9-0260 Hayward Soil Gas   |
| <b>DATE RECEIVED:</b>  | 10/07/2004  | <b>CONTACT:</b>  | Taryn Badal   |
| <b>DATE COMPLETED:</b> | 10/20/2004  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>    | <u>RECEIPT<br/>VAC./PRES.</u> |
|-------------------|-------------|----------------|-------------------------------|
| 13B               | CCV         | Modified TO-15 | NA                            |
| 13C               | CCV         | Modified TO-15 | NA                            |
| 13D               | CCV         | Modified TO-15 | NA                            |
| 14A               | LCS         | Modified TO-15 | NA                            |
| 14B               | LCS         | Modified TO-15 | NA                            |
| 14C               | LCS         | Modified TO-15 | NA                            |
| 14D               | LCS         | Modified TO-15 | NA                            |

CERTIFIED BY:

Laboratory Director

DATE: 10/20/04

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Cambria Environmental Technology**  
**Workorder# 0410140A**

Eleven 6 Liter Summa Canister samples were received on October 07, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

| <i>Requirement</i>                       | <i>TO-15</i>   | <i>ATL Modifications</i>  |
|--|--|---|
| BFB acceptance criteria                  | CLP protocol (TO-15)   | SW-846 protocol   |
| Concentration of IS spike                | 10 ppbv (TO-15)  | 25 ppbv   |
| Dilutions for initial calibration        | Dynamic dilutions or static using canisters  | Syringe dilutions   |
| Daily CCV                                | $\leq 30\%$ Difference   | $\leq 30\%$ Difference with two allowed out up to $\leq 40\%$ ; flag and narrate outliers   |
| Primary ions for Quantification          | Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43. | Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58. |
| Sample collection media                  | Summa canister   | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request                                      |
| Sample Drying System                     | Nafion Dryer (TO-14A)  | Multisorbent  |
| Sample Load Volume                       | 400 mL (TO-14A)  | Varied to 0.2 L.  |
| Blank Acceptance Criteria.               | $< 0.20$ ppbv (TO-14A)   | $< RL$  |
| BFB Absolute Abundance Criteria (TO-14A) | Within 10% of that from the previous day.  | CCV internal standard area counts are compared to ICAL, corrective action for $> 40\%$ D.   |
| Initial Calibration                      | $\leq 30\%$ RSD (TO-14A)   | $\leq 30\%$ RSD with 2 compounds allowed out to $\leq 40\%$ RSD.  |
| IS Recoveries                            | Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)   | Within 40% of CCV recoveries for blank and samples.   |

|                        |                            |  |
|------------------------|----------------------------|--|
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). In a few instances analyte concentration in the spiked replicate was 10X the MDL. A list of these compounds is available. There is no impact on data quality. |
|------------------------|----------------------------|--|

### **Receiving Notes**

The Chain of Custody (COC) information for sample VP2@9 dup did not match the entry on the sample tag with regard to sample identification. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the information on the COC was used to process and report the sample.

Sample VP1@9 was cancelled per client's request.

The Chain of Custody was not relinquished properly. The discrepancy was noted in the Sample Receipt Confirmation email/fax.

### **Analytical Notes**

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The chromatographic pattern present in all samples does not resemble that which is typically attributed to TpH. The value was quantified as TpH per client request.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated Peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: VP1@3

ID#: 0410140A-01A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101107 | Date of Collection: | 9/30/04           |
| Dil. Factor: | 3.16    | Date of Analysis:   | 10/11/04 03:40 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 1.6                  | Not Detected     | 5.0                   | Not Detected      |
| Toluene                       | 1.6                  | Not Detected     | 6.0                   | Not Detected      |
| Ethyl Benzene                 | 1.6                  | Not Detected     | 6.9                   | Not Detected      |
| m,p-Xylene                    | 1.6                  | Not Detected     | 6.9                   | Not Detected      |
| o-Xylene                      | 1.6                  | Not Detected     | 6.9                   | Not Detected      |
| Methyl tert-butyl ether       | 6.3                  | Not Detected     | 23                    | Not Detected      |
| tert-Amyl methyl ether        | 6.3                  | Not Detected     | 26                    | Not Detected      |
| Isopropyl ether               | 6.3                  | Not Detected     | 26                    | Not Detected      |
| Ethyl-tert-butyl ether        | 6.3                  | Not Detected     | 26                    | Not Detected      |
| tert-Butyl alcohol            | 6.3                  | Not Detected     | 19                    | Not Detected      |
| 2-Propanol                    | 6.3                  | 780 E            | 16                    | 1900 E            |
| TPH ref. to Gasoline (MW=100) | 32                   | 1400             | 130                   | 5700              |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1@12

ID#: 0410140A-03A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101220 | Date of Collection: | 10/1/04           |
| Dil. Factor: | 1070    | Date of Analysis:   | 10/13/04 08:45 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 540                  | Not Detected     | 1700                  | Not Detected      |
| Toluene                       | 540                  | Not Detected     | 2000                  | Not Detected      |
| Ethyl Benzene                 | 540                  | Not Detected     | 2300                  | Not Detected      |
| m,p-Xylene                    | 540                  | Not Detected     | 2300                  | Not Detected      |
| o-Xylene                      | 540                  | Not Detected     | 2300                  | Not Detected      |
| Methyl tert-butyl ether       | 2100                 | Not Detected     | 7700                  | Not Detected      |
| tert-Amyl methyl ether        | 2100                 | Not Detected     | 8900                  | Not Detected      |
| Isopropyl ether               | 2100                 | Not Detected     | 8900                  | Not Detected      |
| Ethyl-tert-butyl ether        | 2100                 | Not Detected     | 8900                  | Not Detected      |
| tert-Butyl alcohol            | 2100                 | Not Detected     | 6500                  | Not Detected      |
| 2-Propanol                    | 2100                 | 270000 E         | 5200                  | 660000 E          |
| TPH ref. to Gasoline (MW=100) | 11000                | 110000           | 44000                 | 460000            |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 103       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@3

ID#: 0410140A-04A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |        |                     |                   |
|--------------|--------|---------------------|-------------------|
| File Name:   | 101309 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 2.74   | Date of Analysis:   | 10/13/04 03:40 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 1.4                  | Not Detected     | 4.4                   | Not Detected      |
| Toluene                       | 1.4                  | 2.0              | 5.2                   | 7.6               |
| Ethyl Benzene                 | 1.4                  | Not Detected     | 5.9                   | Not Detected      |
| m,p-Xylene                    | 1.4                  | Not Detected     | 5.9                   | Not Detected      |
| o-Xylene                      | 1.4                  | Not Detected     | 5.9                   | Not Detected      |
| Methyl tert-butyl ether       | 5.5                  | Not Detected     | 20                    | Not Detected      |
| tert-Amyl methyl ether        | 5.5                  | Not Detected     | 23                    | Not Detected      |
| Isopropyl ether               | 5.5                  | Not Detected     | 23                    | Not Detected      |
| Ethyl-tert-butyl ether        | 5.5                  | Not Detected     | 23                    | Not Detected      |
| tert-Butyl alcohol            | 5.5                  | 7.8              | 17                    | 24                |
| 2-Propanol                    | 5.5                  | 770 E            | 13                    | 1900 E            |
| TPH ref. to Gasoline (MW=100) | 27                   | 1000             | 110                   | 4100              |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@3 Duplicate

ID#: 0410140A-04AA

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101312 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 2.74    | Date of Analysis:   | 10/13/04 06:56 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 1.4                  | Not Detected     | 4.4                   | Not Detected      |
| Toluene                       | 1.4                  | 2.2              | 5.2                   | 8.2               |
| Ethyl Benzene                 | 1.4                  | Not Detected     | 5.9                   | Not Detected      |
| m,p-Xylene                    | 1.4                  | Not Detected     | 5.9                   | Not Detected      |
| o-Xylene                      | 1.4                  | Not Detected     | 5.9                   | Not Detected      |
| Methyl tert-butyl ether       | 5.5                  | Not Detected     | 20                    | Not Detected      |
| tert-Amyl methyl ether        | 5.5                  | Not Detected     | 23                    | Not Detected      |
| Isopropyl ether               | 5.5                  | Not Detected     | 23                    | Not Detected      |
| Ethyl-tert-butyl ether        | 5.5                  | Not Detected     | 23                    | Not Detected      |
| tert-Butyl alcohol            | 5.5                  | 7.8              | 17                    | 24                |
| 2-Propanol                    | 5.5                  | 830 E            | 13                    | 2000 E            |
| TPH ref. to Gasoline (MW=100) | 27                   | 1100             | 110                   | 4400              |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 96        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 96        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9

ID#: 0410140A-05A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |        |                     |                   |
|--------------|--------|---------------------|-------------------|
| File Name:   | 101113 | Date of Collection: | 9/30/04           |
| Dil. Factor: | 2.19   | Date of Analysis:   | 10/12/04 01:17 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 1.1                  | Not Detected     | 3.5                   | Not Detected      |
| Toluene                       | 1.1                  | Not Detected     | 4.1                   | Not Detected      |
| Ethyl Benzene                 | 1.1                  | Not Detected     | 4.8                   | Not Detected      |
| m,p-Xylene                    | 1.1                  | Not Detected     | 4.8                   | Not Detected      |
| o-Xylene                      | 1.1                  | Not Detected     | 4.8                   | Not Detected      |
| Methyl tert-butyl ether       | 4.4                  | Not Detected     | 16                    | Not Detected      |
| tert-Amyl methyl ether        | 4.4                  | Not Detected     | 18                    | Not Detected      |
| Isopropyl ether               | 4.4                  | Not Detected     | 18                    | Not Detected      |
| Ethyl-tert-butyl ether        | 4.4                  | Not Detected     | 18                    | Not Detected      |
| tert-Butyl alcohol            | 4.4                  | Not Detected     | 13                    | Not Detected      |
| 2-Propanol                    | 4.4                  | 820 E            | 11                    | 2000 E            |
| TPH ref. to Gasoline (MW=100) | 22                   | 1600             | 90                    | 6400              |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 103       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9 dup

ID#: 0410140A-06A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101215 | Date of Collection: | 9/30/04           |
| Dil. Factor: | 8.20    | Date of Analysis:   | 10/12/04 11:06 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 4.1                  | Not Detected     | 13                    | Not Detected      |
| Toluene                       | 4.1                  | Not Detected     | 15                    | Not Detected      |
| Ethyl Benzene                 | 4.1                  | Not Detected     | 18                    | Not Detected      |
| m,p-Xylene                    | 4.1                  | Not Detected     | 18                    | Not Detected      |
| o-Xylene                      | 4.1                  | Not Detected     | 18                    | Not Detected      |
| Methyl tert-butyl ether       | 16                   | Not Detected     | 59                    | Not Detected      |
| tert-Amyl methyl ether        | 16                   | Not Detected     | 68                    | Not Detected      |
| Isopropyl ether               | 16                   | Not Detected     | 68                    | Not Detected      |
| Ethyl-tert-butyl ether        | 16                   | Not Detected     | 68                    | Not Detected      |
| tert-Butyl alcohol            | 16                   | Not Detected     | 50                    | Not Detected      |
| 2-Propanol                    | 16                   | 830              | 40                    | 2000              |
| TPH ref. to Gasoline (MW=100) | 82                   | 1500             | 340                   | 6200              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 105       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@12

ID#: 0410140A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101217 | Date of Collection: | 10/1/04           |
| Dil. Factor: | 1340    | Date of Analysis:   | 10/13/04 01:56 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 670                  | Not Detected     | 2100                  | Not Detected      |
| Toluene                       | 670                  | Not Detected     | 2500                  | Not Detected      |
| Ethyl Benzene                 | 670                  | Not Detected     | 2900                  | Not Detected      |
| m,p-Xylene                    | 670                  | Not Detected     | 2900                  | Not Detected      |
| o-Xylene                      | 670                  | Not Detected     | 2900                  | Not Detected      |
| Methyl tert-butyl ether       | 2700                 | Not Detected     | 9700                  | Not Detected      |
| tert-Amyl methyl ether        | 2700                 | Not Detected     | 11000                 | Not Detected      |
| Isopropyl ether               | 2700                 | Not Detected     | 11000                 | Not Detected      |
| Ethyl-tert-butyl ether        | 2700                 | Not Detected     | 11000                 | Not Detected      |
| tert-Butyl alcohol            | 2700                 | Not Detected     | 8100                  | Not Detected      |
| 2-Propanol                    | 2700                 | 170000           | 6600                  | 430000            |
| TPH ref. to Gasoline (MW=100) | 13000                | 88000            | 55000                 | 360000            |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 105       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1@9A

ID#: 0410140A-08A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101218 | Date of Collection: | 10/1/04           |
| Dil. Factor: | 14.9    | Date of Analysis:   | 10/13/04 07:15 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 7.4                  | Not Detected     | 24                    | Not Detected      |
| Toluene                       | 7.4                  | Not Detected     | 28                    | Not Detected      |
| Ethyl Benzene                 | 7.4                  | Not Detected     | 32                    | Not Detected      |
| m,p-Xylene                    | 7.4                  | Not Detected     | 32                    | Not Detected      |
| o-Xylene                      | 7.4                  | Not Detected     | 32                    | Not Detected      |
| Methyl tert-butyl ether       | 30                   | Not Detected     | 110                   | Not Detected      |
| tert-Amyl methyl ether        | 30                   | Not Detected     | 120                   | Not Detected      |
| Isopropyl ether               | 30                   | Not Detected     | 120                   | Not Detected      |
| Ethyl-tert-butyl ether        | 30                   | Not Detected     | 120                   | Not Detected      |
| tert-Butyl alcohol            | 30                   | Not Detected     | 90                    | Not Detected      |
| 2-Propanol                    | 30                   | 5200 E           | 73                    | 13000 E           |
| TPH ref. to Gasoline (MW=100) | 150                  | 3500             | 610                   | 14000             |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@3

ID#: 0410140A-09A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101310 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 1.61    | Date of Analysis:   | 10/13/04 04:33 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.80                 | Not Detected     | 2.6                   | Not Detected      |
| Toluene                       | 0.80                 | 7.1              | 3.0                   | 27                |
| Ethyl Benzene                 | 0.80                 | Not Detected     | 3.5                   | Not Detected      |
| m,p-Xylene                    | 0.80                 | 1.5              | 3.5                   | 6.4               |
| o-Xylene                      | 0.80                 | Not Detected     | 3.5                   | Not Detected      |
| Methyl tert-butyl ether       | 3.2                  | Not Detected     | 12                    | Not Detected      |
| tert-Amyl methyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.2                  | Not Detected     | 9.8                   | Not Detected      |
| 2-Propanol                    | 3.2                  | 54               | 7.9                   | 130               |
| TPH ref. to Gasoline (MW=100) | 16                   | 1200             | 66                    | 4900              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 104       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@9

ID#: 0410140A-10A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |        |                     |                   |
|--------------|--------|---------------------|-------------------|
| File Name:   | 101311 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 1.64   | Date of Analysis:   | 10/13/04 05:13 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.82                 | Not Detected     | 2.6                   | Not Detected      |
| Toluene                       | 0.82                 | 3.9              | 3.1                   | 15                |
| Ethyl Benzene                 | 0.82                 | Not Detected     | 3.6                   | Not Detected      |
| m,p-Xylene                    | 0.82                 | 1.1              | 3.6                   | 5.0               |
| o-Xylene                      | 0.82                 | Not Detected     | 3.6                   | Not Detected      |
| Methyl tert-butyl ether       | 3.3                  | Not Detected     | 12                    | Not Detected      |
| tert-Amyl methyl ether        | 3.3                  | Not Detected     | 14                    | Not Detected      |
| Isopropyl ether               | 3.3                  | Not Detected     | 14                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.3                  | Not Detected     | 14                    | Not Detected      |
| tert-Butyl alcohol            | 3.3                  | Not Detected     | 9.9                   | Not Detected      |
| 2-Propanol                    | 3.3                  | 15               | 8.1                   | 38                |
| TPH ref. to Gasoline (MW=100) | 16                   | 2000             | 67                    | 8000              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 96        | 70-130           |
| 1,2-Dichloroethane-d4 | 103       | 70-130           |
| 4-Bromofluorobenzene  | 101       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@12

ID#: 0410140A-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101409 | Date of Collection: | 9/29/04           |
| Dil. Factor: | 82.0    | Date of Analysis:   | 10/14/04 04:37 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 41                   | 49               | 130                   | 160               |
| Toluene                       | 41                   | Not Detected     | 150                   | Not Detected      |
| Ethyl Benzene                 | 41                   | Not Detected     | 180                   | Not Detected      |
| m,p-Xylene                    | 41                   | Not Detected     | 180                   | Not Detected      |
| o-Xylene                      | 41                   | Not Detected     | 180                   | Not Detected      |
| Methyl tert-butyl ether       | 160                  | Not Detected     | 590                   | Not Detected      |
| tert-Amyl methyl ether        | 160                  | Not Detected     | 680                   | Not Detected      |
| Isopropyl ether               | 160                  | Not Detected     | 680                   | Not Detected      |
| Ethyl-tert-butyl ether        | 160                  | Not Detected     | 680                   | Not Detected      |
| tert-Butyl alcohol            | 160                  | Not Detected     | 500                   | Not Detected      |
| 2-Propanol                    | 160                  | >77000 S         | 400                   | >190000 S         |
| TPH ref. to Gasoline (MW=100) | 820                  | 180000           | 3400                  | 740000            |

S = Saturated peak; data reported as estimated.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 107       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0410140A-12A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                     |
|--------------|---------|-------------------------------------|
| File Name:   | 1101106 | Date of Collection: NA              |
| Dil. Factor: | 1.00    | Date of Analysis: 10/11/04 01:50 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 103       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0410140A-12B

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101205 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 10/12/04 11:53 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 98        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0410140A-12C

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |        |                     |                   |
|--------------|--------|---------------------|-------------------|
| File Name:   | 101307 | Date of Collection: | NA                |
| Dil. Factor: | 1.00   | Date of Analysis:   | 10/13/04 01:52 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 100       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0410140A-12D

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |          |                     |                   |
|--------------|----------|---------------------|-------------------|
| File Name:   | 1101407a | Date of Collection: | NA                |
| Dil. Factor: | 1.00     | Date of Analysis:   | 10/14/04 02:55 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 99        | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0410140A-13A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                     |
|--------------|---------|-------------------------------------|
| File Name:   | 1101102 | Date of Collection: NA              |
| Dil. Factor: | 1.00    | Date of Analysis: 10/11/04 08:46 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 101        |
| Toluene                       | 101        |
| Ethyl Benzene                 | 105        |
| m,p-Xylene                    | 114        |
| o-Xylene                      | 107        |
| Methyl tert-butyl ether       | 88         |
| tert-Amyl methyl ether        | 128        |
| Isopropyl ether               | 108        |
| Ethyl-tert-butyl ether        | 115        |
| tert-Butyl alcohol            | 108        |
| 2-Propanol                    | 92         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 101       | 70-130        |
| 4-Bromofluorobenzene  | 102       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0410140A-13B

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101202 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 10/12/04 09:25 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 104        |
| Toluene                       | 103        |
| Ethyl Benzene                 | 107        |
| m,p-Xylene                    | 114        |
| o-Xylene                      | 106        |
| Methyl tert-butyl ether       | 88         |
| tert-Amyl methyl ether        | 126        |
| Isopropyl ether               | 109        |
| Ethyl-tert-butyl ether        | 117        |
| tert-Butyl alcohol            | 110        |
| 2-Propanol                    | 93         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 98        | 70-130        |
| 4-Bromofluorobenzene  | 101       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0410140A-13C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                     |
|--------------|---------|-------------------------------------|
| File Name:   | 1101302 | Date of Collection: NA              |
| Dil. Factor: | 1.00    | Date of Analysis: 10/13/04 09:59 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 101        |
| Toluene                       | 102        |
| Ethyl Benzene                 | 105        |
| m,p-Xylene                    | 112        |
| o-Xylene                      | 106        |
| Methyl tert-butyl ether       | 85         |
| tert-Amyl methyl ether        | 125        |
| Isopropyl ether               | 107        |
| Ethyl-tert-butyl ether        | 114        |
| tert-Butyl alcohol            | 106        |
| 2-Propanol                    | 95         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 103       | 70-130        |
| 4-Bromofluorobenzene  | 105       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0410140A-13D

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101402 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 10/14/04 10:31 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 104        |
| Toluene                       | 104        |
| Ethyl Benzene                 | 107        |
| m,p-Xylene                    | 114        |
| o-Xylene                      | 108        |
| Methyl tert-butyl ether       | 104        |
| tert-Amyl methyl ether        | 127        |
| Isopropyl ether               | 108        |
| Ethyl-tert-butyl ether        | 123        |
| tert-Butyl alcohol            | 115        |
| 2-Propanol                    | 98         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 102       | 70-130        |
| 4-Bromofluorobenzene  | 102       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0410140A-14A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |        |                     |                   |
|--------------|--------|---------------------|-------------------|
| File Name:   | 101104 | Date of Collection: | NA                |
| Dil. Factor: | 1.00   | Date of Analysis:   | 10/11/04 11:39 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 102        |
| Toluene                       | 92         |
| Ethyl Benzene                 | 95         |
| m,p-Xylene                    | 105        |
| o-Xylene                      | 98         |
| Methyl tert-butyl ether       | 83         |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 88         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 102       | 70-130        |
| 4-Bromofluorobenzene  | 104       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0410140A-14B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101203 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 10/12/04 10:13 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 101        |
| Toluene                       | 91         |
| Ethyl Benzene                 | 93         |
| m,p-Xylene                    | 103        |
| o-Xylene                      | 98         |
| Methyl tert-butyl ether       | 79         |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 84         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 100       | 70-130        |
| 4-Bromofluorobenzene  | 104       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0410140A-14C

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101304 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 10/13/04 11:26 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 103        |
| Toluene                       | 93         |
| Ethyl Benzene                 | 94         |
| m,p-Xylene                    | 105        |
| o-Xylene                      | 97         |
| Methyl tert-butyl ether       | 83         |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 87         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 106       | 70-130        |
| 4-Bromofluorobenzene  | 102       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0410140A-14D

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1101405 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 10/14/04 12:51 PM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 110        |
| Toluene                       | 100        |
| Ethyl Benzene                 | 99         |
| m,p-Xylene                    | 111        |
| o-Xylene                      | 103        |
| Methyl tert-butyl ether       | 116        |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 96         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 101       | 70-130        |
| 4-Bromofluorobenzene  | 103       | 70-130        |



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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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**Hours 8:00 A.M to 6:00 P.M. Pacific**

**E-mail to:samlereceiving@airtoxics.com**



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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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**(916) 985-1000 .FAX (916) 985-1020**

**Hours 8:00 A.M to 6:00 P.M. Pacific**

**E-mail to: [samplerceiving@airtoxics.com](mailto:samplerceiving@airtoxics.com)**

**WORK ORDER #: 0412548**

Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Mr. Bob Foss<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 | <b>BILL TO:</b>  | Ms. Sarah Owen<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 |
| <b>PHONE:</b>          | 510-420-0700  | <b>P.O. #</b>    |   |
| <b>FAX:</b>            | 510-420-9170  | <b>PROJECT #</b> | 9-0260 Hayward  |
| <b>DATE RECEIVED:</b>  | 12/29/2004  | <b>CONTACT:</b>  | Taryn Badal   |
| <b>DATE COMPLETED:</b> | 01/12/2005  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u>      | <u>TEST</u>    | <u>RECEIPT</u><br><u>VAC./PRES.</u> |
|-------------------|------------------|----------------|-------------------------------------|
| 01A               | VP1@3            | Modified TO-15 | 4.5 "Hg                             |
| 02A               | VP1@3 OLD        | Modified TO-15 | 5.0 "Hg                             |
| 03A               | VP1@9            | Modified TO-15 | 3.5 "Hg                             |
| 04A               | VP1@12           | Modified TO-15 | 9.0 "Hg                             |
| 05A               | VP2@3            | Modified TO-15 | 4.0 "Hg                             |
| 06A               | VP2@3 OLD        | Modified TO-15 | 3.5 "Hg                             |
| 07A               | VP2@9            | Modified TO-15 | 6.0 "Hg                             |
| 08A               | VP2@9 DUP        | Modified TO-15 | 3.5 "Hg                             |
| 09A               | VP2@12           | Modified TO-15 | 4.5 "Hg                             |
| 10A               | VP3@3            | Modified TO-15 | 0.5 "Hg                             |
| 11A               | VP3@9            | Modified TO-15 | 4.0 "Hg                             |
| 12A               | VP3@12           | Modified TO-15 | 2.0 "Hg                             |
| 12AA              | VP3@12 Duplicate | Modified TO-15 | 2.0 "Hg                             |
| 13A               | Trip Blank       | Modified TO-15 | 29.0 "Hg                            |
| 14A               | Lab Blank        | Modified TO-15 | NA                                  |
| 14B               | Lab Blank        | Modified TO-15 | NA                                  |
| 14C               | Lab Blank        | Modified TO-15 | NA                                  |

Continued on next page



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0412548**

## Work Order Summary

|                        |   |                  |   |
|------------------------|---|------------------|---|
| <b>CLIENT:</b>         | Mr. Bob Foss<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 | <b>BILL TO:</b>  | Ms. Sarah Owen<br>Cambria Environmental Technology<br>5900 Hollis Street<br>Suite A<br>Emeryville, CA 94608 |
| <b>PHONE:</b>          | 510-420-0700  | <b>P.O. #</b>    |   |
| <b>FAX:</b>            | 510-420-9170  | <b>PROJECT #</b> | 9-0260 Hayward  |
| <b>DATE RECEIVED:</b>  | 12/29/2004  | <b>CONTACT:</b>  | Taryn Badal   |
| <b>DATE COMPLETED:</b> | 01/12/2005  |                  |   |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>    | <u>RECEIPT<br/>VAC./PRES.</u> |
|-------------------|-------------|----------------|-------------------------------|
| 14D               | Lab Blank   | Modified TO-15 | NA                            |
| 15A               | CCV         | Modified TO-15 | NA                            |
| 15B               | CCV         | Modified TO-15 | NA                            |
| 15C               | CCV         | Modified TO-15 | NA                            |
| 15D               | CCV         | Modified TO-15 | NA                            |
| 16A               | LCS         | Modified TO-15 | NA                            |
| 16B               | LCS         | Modified TO-15 | NA                            |
| 16C               | LCS         | Modified TO-15 | NA                            |
| 16D               | LCS         | Modified TO-15 | NA                            |

CERTIFIED BY:

Laboratory Director

DATE: 01/12/05

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**Cambria Environmental Technology**  
**Workorder# 0412548**

Twelve 6 Liter Summa Canister and One 6 Liter Summa Canister (100% Certified) samples were received on December 29, 2004. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

| <i>Requirement</i>                       | <i>TO-15</i>   | <i>ATL Modifications</i>  |
|--|--|---|
| BFB acceptance criteria                  | CLP protocol (TO-15)   | SW-846 protocol   |
| Concentration of IS spike                | 10 ppbv (TO-15)  | 25 ppbv   |
| Dilutions for initial calibration        | Dynamic dilutions or static using canisters  | Syringe dilutions   |
| Daily CCV                                | $\leq 30\%$ Difference   | $\leq 30\%$ Difference with two allowed out up to $\leq 40\%$ ; flag and narrate outliers   |
| Primary ions for Quantification          | Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43. | Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58. |
| Sample collection media                  | Summa canister   | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request                                      |
| Sample Drying System                     | Nafion Dryer (TO-14A)  | Multisorbent  |
| Sample Load Volume                       | 400 mL (TO-14A)  | Varied to 0.2 L.  |
| Blank Acceptance Criteria.               | $< 0.20$ ppbv (TO-14A)   | $< \text{RL}$   |
| BFB Absolute Abundance Criteria (TO-14A) | Within 10% of that from the previous day.  | CCV internal standard area counts are compared to ICAL, corrective action for $> 40\%$ D.   |
| Initial Calibration                      | $\leq 30\%$ RSD (TO-14A)   | $\leq 30\%$ RSD with 2 compounds allowed out to $\leq 40\%$ RSD.  |
| IS Recoveries                            | Within 40% of mean over ICAL for blanks, and within 40 % of daily CCV for samples. (TO-15)   | Within 40% of CCV recoveries for blank and samples.   |

|                        |                            |  |
|------------------------|----------------------------|--|
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases. A list of these compounds is available. |
|------------------------|----------------------------|--|

### **Receiving Notes**

There were no receiving discrepancies.

### **Analytical Notes**

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Dilution was performed on samples VP3@12 and VP3@12 Duplicate due to the presence of high level non-target species.

Dilution was performed on sample VP3@3 OLD due to the presence of high levels of 2-Propanol.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated Peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

# AIR TOXICS LTD.

SAMPLE NAME: VP1@3

ID#: 0412548-01A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1123024 | Date of Collection: | 12/21/04          |
| Dil. Factor: | 1.58    | Date of Analysis:   | 12/31/04 12:09 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.79                 | Not Detected     | 2.5                   | Not Detected      |
| Toluene                       | 0.79                 | 1.1              | 3.0                   | 4.1               |
| Ethyl Benzene                 | 0.79                 | Not Detected     | 3.4                   | Not Detected      |
| m,p-Xylene                    | 0.79                 | 1.9              | 3.4                   | 8.2               |
| o-Xylene                      | 0.79                 | 0.83             | 3.4                   | 3.6               |
| Methyl tert-butyl ether       | 3.2                  | Not Detected     | 11                    | Not Detected      |
| tert-Amyl methyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.2                  | Not Detected     | 9.6                   | Not Detected      |
| 2-Propanol                    | 3.2                  | Not Detected     | 7.8                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 16                   | 390              | 65                    | 1600              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 117       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1@3 OLD

ID#: 0412548-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | i010410 | Date of Collection: | 12/21/04        |
| Dil. Factor: | 1.61    | Date of Analysis:   | 1/4/05 03:36 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.80                 | Not Detected     | 2.6                   | Not Detected      |
| Toluene                       | 0.80                 | Not Detected     | 3.0                   | Not Detected      |
| Ethyl Benzene                 | 0.80                 | Not Detected     | 3.5                   | Not Detected      |
| m,p-Xylene                    | 0.80                 | 0.90             | 3.5                   | 3.9               |
| o-Xylene                      | 0.80                 | Not Detected     | 3.5                   | Not Detected      |
| Methyl tert-butyl ether       | 3.2                  | Not Detected     | 12                    | Not Detected      |
| tert-Amyl methyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.2                  | Not Detected     | 9.8                   | Not Detected      |
| 2-Propanol                    | 3.2                  | 1600 E           | 7.9                   | 3900 E            |
| TPH ref. to Gasoline (MW=100) | 16                   | 470              | 66                    | 1900              |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 95        | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 122       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1@9

ID#: 0412548-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1010407 | Date of Collection: | 12/21/04        |
| Dil. Factor: | 1.52    | Date of Analysis:   | 1/4/05 01:39 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.76                 | Not Detected     | 2.4                   | Not Detected      |
| Toluene                       | 0.76                 | Not Detected     | 2.9                   | Not Detected      |
| Ethyl Benzene                 | 0.76                 | Not Detected     | 3.3                   | Not Detected      |
| m,p-Xylene                    | 0.76                 | 1.1              | 3.3                   | 4.9               |
| o-Xylene                      | 0.76                 | Not Detected     | 3.3                   | Not Detected      |
| Methyl tert-butyl ether       | 3.0                  | Not Detected     | 11                    | Not Detected      |
| tert-Amyl methyl ether        | 3.0                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.0                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.0                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.0                  | Not Detected     | 9.2                   | Not Detected      |
| 2-Propanol                    | 3.0                  | Not Detected     | 7.5                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 15                   | 930              | 62                    | 3800              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 95        | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 127       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP1@12

ID#: 0412548-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1010408 | Date of Collection: | 12/21/04        |
| Dil. Factor: | 1.91    | Date of Analysis:   | 1/4/05 02:19 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.96                 | Not Detected     | 3.0                   | Not Detected      |
| Toluene                       | 0.96                 | 1.5              | 3.6                   | 5.6               |
| Ethyl Benzene                 | 0.96                 | Not Detected     | 4.1                   | Not Detected      |
| m,p-Xylene                    | 0.96                 | 1.3              | 4.1                   | 5.7               |
| o-Xylene                      | 0.96                 | Not Detected     | 4.1                   | Not Detected      |
| Methyl tert-butyl ether       | 3.8                  | Not Detected     | 14                    | Not Detected      |
| tert-Amyl methyl ether        | 3.8                  | Not Detected     | 16                    | Not Detected      |
| Isopropyl ether               | 3.8                  | Not Detected     | 16                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.8                  | Not Detected     | 16                    | Not Detected      |
| tert-Butyl alcohol            | 3.8                  | Not Detected     | 12                    | Not Detected      |
| 2-Propanol                    | 3.8                  | 69               | 9.4                   | 170               |
| TPH ref. to Gasoline (MW=100) | 19                   | 400              | 78                    | 1600              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 125       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@3

ID#: 0412548-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010311 | Date of Collection: | 12/21/04        |
| Dil. Factor: | 1.55    | Date of Analysis:   | 1/3/05 04:45 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.78                 | Not Detected     | 2.5                   | Not Detected      |
| Toluene                       | 0.78                 | Not Detected     | 2.9                   | Not Detected      |
| Ethyl Benzene                 | 0.78                 | Not Detected     | 3.4                   | Not Detected      |
| m,p-Xylene                    | 0.78                 | Not Detected     | 3.4                   | Not Detected      |
| o-Xylene                      | 0.78                 | Not Detected     | 3.4                   | Not Detected      |
| Methyl tert-butyl ether       | 3.1                  | Not Detected     | 11                    | Not Detected      |
| tert-Amyl methyl ether        | 3.1                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.1                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.1                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.1                  | Not Detected     | 9.4                   | Not Detected      |
| 2-Propanol                    | 3.1                  | Not Detected     | 7.6                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 16                   | 300              | 63                    | 1200              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 93        | 70-130           |
| 4-Bromofluorobenzene  | 107       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@3 OLD

ID#: 0412548-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010409 | Date of Collection: | 12/21/04        |
| Dil. Factor: | 4.05    | Date of Analysis:   | 1/4/05 03:50 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 2.0                  | Not Detected     | 6.5                   | Not Detected      |
| Toluene                       | 2.0                  | Not Detected     | 7.6                   | Not Detected      |
| Ethyl Benzene                 | 2.0                  | Not Detected     | 8.8                   | Not Detected      |
| m,p-Xylene                    | 2.0                  | Not Detected     | 8.8                   | Not Detected      |
| o-Xylene                      | 2.0                  | Not Detected     | 8.8                   | Not Detected      |
| Methyl tert-butyl ether       | 8.1                  | Not Detected     | 29                    | Not Detected      |
| tert-Amyl methyl ether        | 8.1                  | Not Detected     | 34                    | Not Detected      |
| Isopropyl ether               | 8.1                  | Not Detected     | 34                    | Not Detected      |
| Ethyl-tert-butyl ether        | 8.1                  | Not Detected     | 34                    | Not Detected      |
| tert-Butyl alcohol            | 8.1                  | Not Detected     | 24                    | Not Detected      |
| 2-Propanol                    | 8.1                  | 1700 E           | 20                    | 4200 E            |
| TPH ref. to Gasoline (MW=100) | 40                   | 82               | 160                   | 340               |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 107       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9

ID#: 0412548-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010313 | Date of Collection: | 12/21/04        |
| Dil. Factor: | 1:68    | Date of Analysis:   | 1/3/05 07:11 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.84                 | Not Detected     | 2.7                   | Not Detected      |
| Toluene                       | 0.84                 | Not Detected     | 3.2                   | Not Detected      |
| Ethyl Benzene                 | 0.84                 | Not Detected     | 3.6                   | Not Detected      |
| m,p-Xylene                    | 0.84                 | Not Detected     | 3.6                   | Not Detected      |
| o-Xylene                      | 0.84                 | Not Detected     | 3.6                   | Not Detected      |
| Methyl tert-butyl ether       | 3.4                  | Not Detected     | 12                    | Not Detected      |
| tert-Amyl methyl ether        | 3.4                  | Not Detected     | 14                    | Not Detected      |
| Isopropyl ether               | 3.4                  | Not Detected     | 14                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.4                  | Not Detected     | 14                    | Not Detected      |
| tert-Butyl alcohol            | 3.4                  | Not Detected     | 10                    | Not Detected      |
| 2-Propanol                    | 3.4                  | 3.5              | 8.2                   | 8.6               |
| TPH ref. to Gasoline (MW=100) | 17                   | 600              | 69                    | 2400              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 97        | 70-130           |
| 1,2-Dichloroethane-d4 | 97        | 70-130           |
| 4-Bromofluorobenzene  | 108       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@9 DUP

ID#: 0412548-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010314 | Date of Collection: | 12/21/04        |
| Dil. Factor: | 1.52    | Date of Analysis:   | 1/3/05 07:55 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.76                 | Not Detected     | 2.4                   | Not Detected      |
| Toluene                       | 0.76                 | Not Detected     | 2.9                   | Not Detected      |
| Ethyl Benzene                 | 0.76                 | Not Detected     | 3.3                   | Not Detected      |
| m,p-Xylene                    | 0.76                 | Not Detected     | 3.3                   | Not Detected      |
| o-Xylene                      | 0.76                 | Not Detected     | 3.3                   | Not Detected      |
| Methyl tert-butyl ether       | 3.0                  | Not Detected     | 11                    | Not Detected      |
| tert-Amyl methyl ether        | 3.0                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.0                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.0                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.0                  | Not Detected     | 9.2                   | Not Detected      |
| 2-Propanol                    | 3.0                  | Not Detected     | 7.5                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 15                   | 440              | 62                    | 1800              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 110       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP2@12

ID#: 0412548-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010412 | Date of Collection: | 12/22/04        |
| Dil. Factor: | 1.58    | Date of Analysis:   | 1/4/05 06:53 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.79                 | 2.9              | 2.5                   | 9.2               |
| Toluene                       | 0.79                 | 1.4              | 3.0                   | 5.4               |
| Ethyl Benzene                 | 0.79                 | Not Detected     | 3.4                   | Not Detected      |
| m,p-Xylene                    | 0.79                 | 1.3              | 3.4                   | 5.8               |
| o-Xylene                      | 0.79                 | Not Detected     | 3.4                   | Not Detected      |
| Methyl tert-butyl ether       | 3.2                  | 18               | 11                    | 64                |
| tert-Amyl methyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.2                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.2                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.2                  | Not Detected     | 9.6                   | Not Detected      |
| 2-Propanol                    | 3.2                  | 110              | 7.8                   | 280               |
| TPH ref. to Gasoline (MW=100) | 16                   | 2400             | 65                    | 9800              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 108       | 70-130           |
| 4-Bromofluorobenzene  | 109       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@3

ID#: 0412548-10A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010316 | Date of Collection: | 12/22/04        |
| Dil. Factor: | 1.36    | Date of Analysis:   | 1/3/05 09:24 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.68                 | Not Detected     | 2.2                   | Not Detected      |
| Toluene                       | 0.68                 | 1.2              | 2.6                   | 4.3               |
| Ethyl Benzene                 | 0.68                 | Not Detected     | 3.0                   | Not Detected      |
| m,p-Xylene                    | 0.68                 | 1.6              | 3.0                   | 7.0               |
| o-Xylene                      | 0.68                 | Not Detected     | 3.0                   | Not Detected      |
| Methyl tert-butyl ether       | 2.7                  | Not Detected     | 9.8                   | Not Detected      |
| tert-Amyl methyl ether        | 2.7                  | Not Detected     | 11                    | Not Detected      |
| Isopropyl ether               | 2.7                  | Not Detected     | 11                    | Not Detected      |
| Ethyl-tert-butyl ether        | 2.7                  | Not Detected     | 11                    | Not Detected      |
| tert-Butyl alcohol            | 2.7                  | Not Detected     | 8.2                   | Not Detected      |
| 2-Propanol                    | 2.7                  | 2.7              | 6.7                   | 6.6 J             |
| TPH ref. to Gasoline (MW=100) | 14                   | 480              | 56                    | 2000              |

J = Estimated value.

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 103       | 70-130           |
| 4-Bromofluorobenzene  | 109       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@9

ID#: 0412548-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010317 | Date of Collection: | 12/22/04        |
| Dil. Factor: | 1.55    | Date of Analysis:   | 1/3/05 10:08 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.78                 | Not Detected     | 2.5                   | Not Detected      |
| Toluene                       | 0.78                 | Not Detected     | 2.9                   | Not Detected      |
| Ethyl Benzene                 | 0.78                 | Not Detected     | 3.4                   | Not Detected      |
| m,p-Xylene                    | 0.78                 | 0.86             | 3.4                   | 3.7               |
| o-Xylene                      | 0.78                 | Not Detected     | 3.4                   | Not Detected      |
| Methyl tert-butyl ether       | 3.1                  | Not Detected     | 11                    | Not Detected      |
| tert-Amyl methyl ether        | 3.1                  | Not Detected     | 13                    | Not Detected      |
| Isopropyl ether               | 3.1                  | Not Detected     | 13                    | Not Detected      |
| Ethyl-tert-butyl ether        | 3.1                  | Not Detected     | 13                    | Not Detected      |
| tert-Butyl alcohol            | 3.1                  | Not Detected     | 9.4                   | Not Detected      |
| 2-Propanol                    | 3.1                  | Not Detected     | 7.6                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 16                   | 790              | 63                    | 3200              |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 107       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@12

ID#: 0412548-12A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010413 | Date of Collection: | 12/22/04        |
| Dil. Factor: | 2.88    | Date of Analysis:   | 1/4/05 07:33 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 1.4                  | 180              | 4.6                   | 560               |
| Toluene                       | 1.4                  | 11               | 5.4                   | 42                |
| Ethyl Benzene                 | 1.4                  | 5.6              | 6.2                   | 24                |
| m,p-Xylene                    | 1.4                  | 6.4              | 6.2                   | 28                |
| o-Xylene                      | 1.4                  | 2.6              | 6.2                   | 11                |
| Methyl tert-butyl ether       | 5.8                  | Not Detected     | 21                    | Not Detected      |
| tert-Amyl methyl ether        | 5.8                  | Not Detected     | 24                    | Not Detected      |
| Isopropyl ether               | 5.8                  | Not Detected     | 24                    | Not Detected      |
| Ethyl-tert-butyl ether        | 5.8                  | Not Detected     | 24                    | Not Detected      |
| tert-Butyl alcohol            | 5.8                  | Not Detected     | 17                    | Not Detected      |
| 2-Propanol                    | 5.8                  | 12               | 14                    | 30                |
| TPH ref. to Gasoline (MW=100) | 29                   | 7100             | 120                   | 29000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 102       | 70-130           |
| 4-Bromofluorobenzene  | 107       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: VP3@12 Duplicate

ID#: 0412548-12AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 0010414 | Date of Collection: | 12/22/04        |
| Dil. Factor: | 2.88    | Date of Analysis:   | 1/4/05 08:14 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 1.4                  | 180              | 4.6                   | 560               |
| Toluene                       | 1.4                  | 11               | 5.4                   | 41                |
| Ethyl Benzene                 | 1.4                  | 5.7              | 6.2                   | 25                |
| m,p-Xylene                    | 1.4                  | 7.1              | 6.2                   | 31                |
| o-Xylene                      | 1.4                  | 2.5              | 6.2                   | 11                |
| Methyl tert-butyl ether       | 5.8                  | Not Detected     | 21                    | Not Detected      |
| tert-Amyl methyl ether        | 5.8                  | Not Detected     | 24                    | Not Detected      |
| Isopropyl ether               | 5.8                  | Not Detected     | 24                    | Not Detected      |
| Ethyl-tert-butyl ether        | 5.8                  | Not Detected     | 24                    | Not Detected      |
| tert-Butyl alcohol            | 5.8                  | Not Detected     | 17                    | Not Detected      |
| 2-Propanol                    | 5.8                  | 12               | 14                    | 30                |
| TPH ref. to Gasoline (MW=100) | 29                   | 7100             | 120                   | 29000             |

Container Type: 6 Liter Summa Canister

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 106       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Trip Blank

ID#: 0412548-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 1010409 | Date of Collection: | 12/28/04        |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/4/05 02:57 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: 6 Liter Summa Canister (100% Certified)

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 94        | 70-130           |
| 1,2-Dichloroethane-d4 | 101       | 70-130           |
| 4-Bromofluorobenzene  | 102       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0412548-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | i123007 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 12/30/04 08:47 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 96        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 102       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0412548-14B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010305 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/3/05 11:11 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 99        | 70-130           |
| 1,2-Dichloroethane-d4 | 96        | 70-130           |
| 4-Bromofluorobenzene  | 106       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0412548-14C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | 0010405 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/4/05 12:11 PM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 98        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 110       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0412548-14D

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | I010405 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/4/05 11:42 AM |

| Compound                      | Rpt. Limit<br>(ppbv) | Amount<br>(ppbv) | Rpt. Limit<br>(uG/m3) | Amount<br>(uG/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Benzene                       | 0.50                 | Not Detected     | 1.6                   | Not Detected      |
| Toluene                       | 0.50                 | Not Detected     | 1.9                   | Not Detected      |
| Ethyl Benzene                 | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| m,p-Xylene                    | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| o-Xylene                      | 0.50                 | Not Detected     | 2.2                   | Not Detected      |
| Methyl tert-butyl ether       | 2.0                  | Not Detected     | 7.2                   | Not Detected      |
| tert-Amyl methyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Isopropyl ether               | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| Ethyl-tert-butyl ether        | 2.0                  | Not Detected     | 8.4                   | Not Detected      |
| tert-Butyl alcohol            | 2.0                  | Not Detected     | 6.1                   | Not Detected      |
| 2-Propanol                    | 2.0                  | Not Detected     | 4.9                   | Not Detected      |
| TPH ref. to Gasoline (MW=100) | 10                   | Not Detected     | 41                    | Not Detected      |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method<br>Limits |
|-----------------------|-----------|------------------|
| Toluene-d8            | 95        | 70-130           |
| 1,2-Dichloroethane-d4 | 100       | 70-130           |
| 4-Bromofluorobenzene  | 117       | 70-130           |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0412548-15A

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1123002 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 12/30/04 04:37 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 80         |
| Toluene                       | 90         |
| Ethyl Benzene                 | 94         |
| m,p-Xylene                    | 102        |
| o-Xylene                      | 105        |
| Methyl tert-butyl ether       | 88         |
| tert-Amyl methyl ether        | 103        |
| Isopropyl ether               | 108        |
| Ethyl-tert-butyl ether        | 107        |
| tert-Butyl alcohol            | 102        |
| 2-Propanol                    | 89         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 103       | 70-130        |
| 4-Bromofluorobenzene  | 118       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0412548-15B

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010302 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/3/05 08:40 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 93         |
| Toluene                       | 100        |
| Ethyl Benzene                 | 104        |
| m,p-Xylene                    | 106        |
| o-Xylene                      | 108        |
| Methyl tert-butyl ether       | 96         |
| tert-Amyl methyl ether        | 86         |
| Isopropyl ether               | 73         |
| Ethyl-tert-butyl ether        | 82         |
| tert-Butyl alcohol            | 76         |
| 2-Propanol                    | 79         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 94        | 70-130        |
| 4-Bromofluorobenzene  | 112       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0412548-15C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010402 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/4/05 09:23 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 97         |
| Toluene                       | 105        |
| Ethyl Benzene                 | 110        |
| m,p-Xylene                    | 114        |
| o-Xylene                      | 111        |
| Methyl tert-butyl ether       | 97         |
| tert-Amyl methyl ether        | 89         |
| Isopropyl ether               | 74         |
| Ethyl-tert-butyl ether        | 83         |
| tert-Butyl alcohol            | 73         |
| 2-Propanol                    | 74         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 98        | 70-130        |
| 1,2-Dichloroethane-d4 | 99        | 70-130        |
| 4-Bromofluorobenzene  | 110       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0412548-15D

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | i010402 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/4/05 09:20 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 81         |
| Toluene                       | 92         |
| Ethyl Benzene                 | 95         |
| m,p-Xylene                    | 104        |
| o-Xylene                      | 108        |
| Methyl tert-butyl ether       | 89         |
| tert-Amyl methyl ether        | 87         |
| Isopropyl ether               | 92         |
| Ethyl-tert-butyl ether        | 92         |
| tert-Butyl alcohol            | 85         |
| 2-Propanol                    | 89         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 103       | 70-130        |
| 4-Bromofluorobenzene  | 127       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0412548-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                   |
|--------------|---------|---------------------|-------------------|
| File Name:   | 1123004 | Date of Collection: | NA                |
| Dil. Factor: | 1.00    | Date of Analysis:   | 12/30/04 06:20 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 90         |
| Toluene                       | 91         |
| Ethyl Benzene                 | 94         |
| m,p-Xylene                    | 105        |
| o-Xylene                      | 109        |
| Methyl tert-butyl ether       | 100        |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 90         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 102       | 70-130        |
| 4-Bromofluorobenzene  | 121       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0412548-16B

## MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010303 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/3/05 09:38 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 101        |
| Toluene                       | 98         |
| Ethyl Benzene                 | 102        |
| m,p-Xylene                    | 108        |
| o-Xylene                      | 105        |
| Methyl tert-butyl ether       | 108        |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 78         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 97        | 70-130        |
| 1,2-Dichloroethane-d4 | 95        | 70-130        |
| 4-Bromofluorobenzene  | 110       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0412548-16C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                     |                 |
|--------------|---------|---------------------|-----------------|
| File Name:   | d010403 | Date of Collection: | NA              |
| Dil. Factor: | 1.00    | Date of Analysis:   | 1/4/05 10:25 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 102        |
| Toluene                       | 109        |
| Ethyl Benzene                 | 113        |
| m,p-Xylene                    | 118        |
| o-Xylene                      | 109        |
| Methyl tert-butyl ether       | 100        |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 82         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 96        | 70-130        |
| 1,2-Dichloroethane-d4 | 97        | 70-130        |
| 4-Bromofluorobenzene  | 111       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0412548-16D

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

|              |         |                                   |
|--------------|---------|-----------------------------------|
| File Name:   | 1010493 | Date of Collection: NA            |
| Dil. Factor: | 1.00    | Date of Analysis: 1/4/05 10:14 AM |

| Compound                      | %Recovery  |
|-------------------------------|------------|
| Benzene                       | 84         |
| Toluene                       | 92         |
| Ethyl Benzene                 | 93         |
| m,p-Xylene                    | 102        |
| o-Xylene                      | 99         |
| Methyl tert-butyl ether       | 84         |
| tert-Amyl methyl ether        | Not Spiked |
| Isopropyl ether               | Not Spiked |
| Ethyl-tert-butyl ether        | Not Spiked |
| tert-Butyl alcohol            | Not Spiked |
| 2-Propanol                    | 82         |
| TPH ref. to Gasoline (MW=100) | Not Spiked |

Container Type: NA - Not Applicable

| Surrogates            | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8            | 99        | 70-130        |
| 1,2-Dichloroethane-d4 | 100       | 70-130        |
| 4-Bromofluorobenzene  | 129       | 70-130        |



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Page 1 of 2

## CHAIN-OF-CUSTODY RECORD

Contact Person Sarah Owen  
Company Cambria Email owen@cambria-env.com  
Address 5900 Hollis St. Ste A City Emeryville State CA Zip 94608  
Phone 510 420 3350 Fax 510 420 9170  
Collected by: (Signature) Sarah Owen

|                             |                         |  |   |
|-----------------------------|-------------------------|--|---|
| Project Info:               |                         | Turn Around Time:  | Lap Use Only                                |
| P.O. # <u>9-0260</u>        | Project # <u>9-0260</u> | <input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush<br>specify _____ | Pressurized by: <u>DS</u>                   |
| Project Name <u>Hayward</u> |                         |  | Date: <u>12/23/04</u>                       |
|                             |                         |  | Pressurization Gas: <u>N<sub>2</sub></u> He |

| Lab I.D. | Field Sample I.D. (Location) | Date     | Time  | Analyses Requested | Canister Pressure/Vacuum |       |         |             |
|----------|------------------------------|----------|-------|--------------------|--------------------------|-------|---------|-------------|
|          |                              |          |       |                    | Initial                  | Final | Receipt | Final (psi) |
| 01A      | VP1 @ 3                      | 12/21/04 | 11:33 | TPH, BTEX, MTBE,   | -30                      | -2    | 4.5" Hg | 5.0" Hg     |
| 02A      | VP1 @ 3 OLD                  | 12/22/04 | 11:09 | TAME, TBA, DIPE,   | -30                      | -7    | 5.0" Hg | 1" Hg       |
| 03A      | VP1 @ 9                      | 12/21/04 | 12:24 | ETBE by TO15       | <-30                     | -7    | 3.5" Hg |             |
| 04A      | VP1 @ 12                     | 12/21/04 | 1:40  | for all            | -30                      | -11   | 9.0" Hg |             |
| 05A      | VP2 @ 3                      | 12/21/04 | 4:45  |                    | -28                      | -6    | 4.0" Hg |             |
| 06A      | VP2 @ 3 OLD                  | 12/22/04 | 10:33 |                    | <-30                     | -6    | 3.5" Hg |             |
| 07A      | VP2 @ 9                      | 12/21/04 | 3:54  |                    | -29                      | -8    | 6.0" Hg |             |
| 08A      | VP2 @ 9 dup                  | 12/21/04 | 3:54  |                    | -29                      | -5    | 3.5" Hg |             |
| 09A      | VP2 @ 12                     | 12/22/04 | 3:08  |                    | -30                      | -6    | 4.5" Hg | V           |

|  |  |   |
|--|--|---|
| Relinquished by: (signature) <u>Sarah Owen</u> Date/Time <u>12/28/04 12:25</u> | Received by: (signature) <u>CEVANO</u> Date/Time <u>12/28/04 11:25am</u> | Notes: <u>VP1 @ 12, VP2 @ 12, VP2 @ 9 &amp; VP2 @ 9 dup - some water droplets seen in tubing from well after sampling</u> |
| Relinquished by: (signature) <u>CEVANO</u> Date/Time <u>12-28-04</u>           | Received by: (signature) _____ Date/Time _____                           |   |
| Relinquished by: (signature) _____ Date/Time _____                             | Received by: (signature) <u>annalyn wong</u> Date/Time <u>12/29/04</u>   |   |

|              |                         |                                |                    |                       |  |                             |
|--------------|-------------------------|--------------------------------|--------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>DHL</u> | Alt Bill # <u>988 485 4523</u> | Temp (°C) <u>-</u> | Condition <u>good</u> | Custody Seals Intact? <u>Yes</u> <u>No</u> <u>None</u> | Work Order # <u>0412548</u> |
|--------------|-------------------------|--------------------------------|--------------------|-----------------------|--|-----------------------------|



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FOLSOM, CA 95630-4719  
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Page 2 of 2

## CHAIN-OF-CUSTODY RECORD

Contact Person Sarah Owen  
Company Cambria Email Sowen@cambria.com  
Address 5900 Hollis St. STE A City Centerville State CA Zip 94608  
Phone 510 420 3350 Fax 510 420 9170

Collected by: (Signature) Sarah Cady Owen

|               |                |  |                               |
|---------------|----------------|--|-------------------------------|
| Project Info: |                | Turn Around Time:                          | Lab/Use Only:                 |
| P.O. #        | <u>9-0260</u>  | <input checked="" type="checkbox"/> Normal | Pressurized by: <u>BZ</u>     |
| Project #     | <u>9-0260</u>  | <input type="checkbox"/> Rush              | Date: <u>12/29/04</u>         |
| Project Name  | <u>Hayward</u> | specify                                    | Pressurization Gas: <u>He</u> |

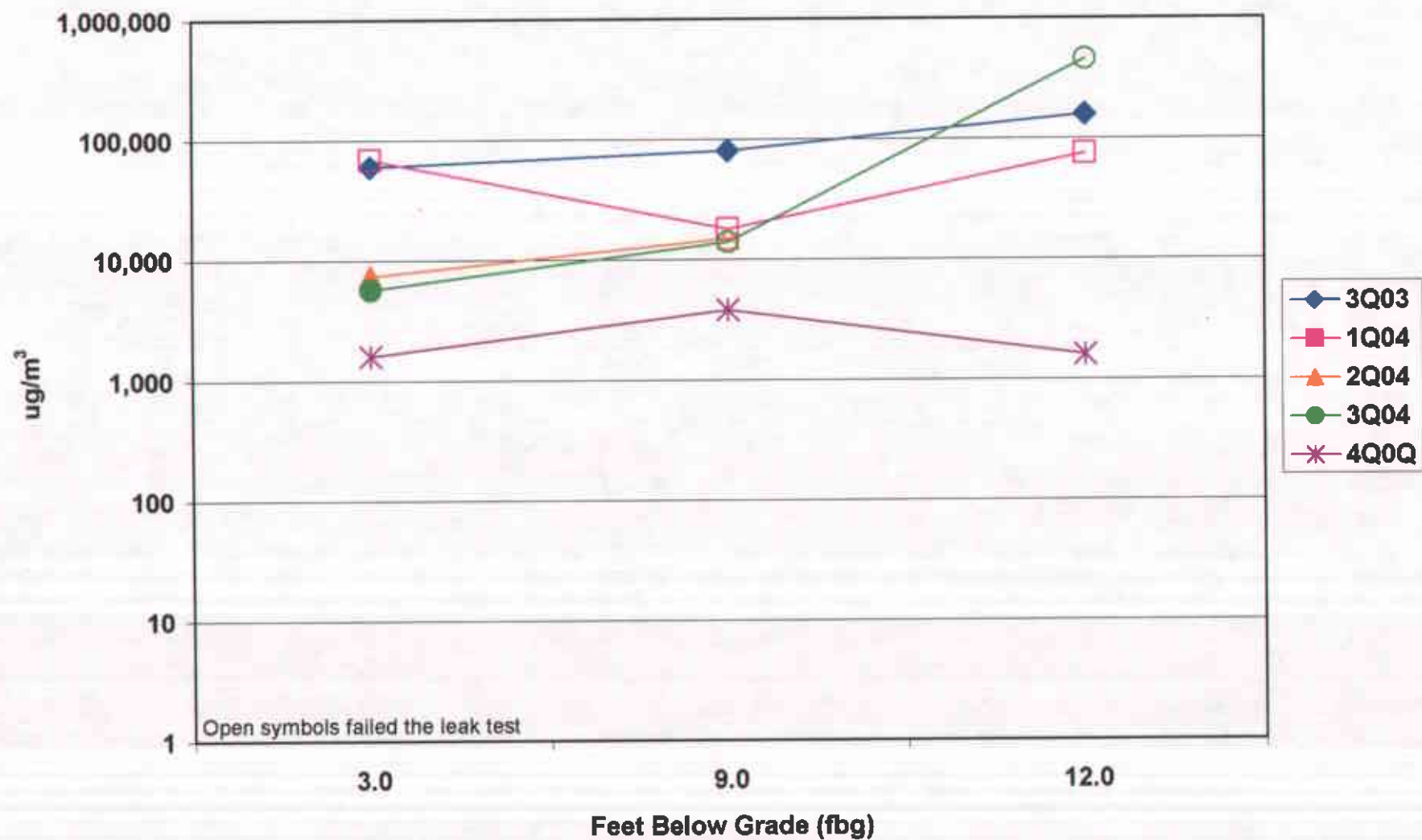
| Lab I.D.   | Field Sample I.D. (Location) | Date            | Time         | Analyses Requested      | Canister Pressure/Vacuum |           |             |             |
|------------|------------------------------|-----------------|--------------|-------------------------|--------------------------|-----------|-------------|-------------|
|            |                              |                 |              |                         | Initial                  | Final     | Receipt     | Final       |
| <u>10A</u> | <u>VP3 23</u>                | <u>12/22/04</u> | <u>11:45</u> | <u>TPH, BTEX, MTBE,</u> | <u>-30</u>               | <u>-4</u> | <u>0.51</u> | <u>5.04</u> |
| <u>11A</u> | <u>VP3 29</u>                | <u>12/22/04</u> | <u>12:43</u> | <u>TAME, TBA, DIPE,</u> | <u>-30</u>               | <u>-8</u> | <u>4.0</u>  | <u>1.0</u>  |
| <u>12A</u> | <u>VP3 212</u>               | <u>12/22/04</u> | <u>11:50</u> | <u>ETBE by TD15</u>     | <u>-30</u>               | <u>-5</u> | <u>2.0</u>  | <u>1.0</u>  |
| <u>13A</u> | <u>Trip Blank</u>            | <u>12/20/04</u> | <u>10:20</u> | <u>for all</u>          | <u>-30</u>               |           | <u>29.0</u> | <u>1.0</u>  |
|            |                              |                 |              |                         |                          |           |             |             |
|            |                              |                 |              |                         |                          |           |             |             |
|            |                              |                 |              |                         |                          |           |             |             |
|            |                              |                 |              |                         |                          |           |             |             |
|            |                              |                 |              |                         |                          |           |             |             |
|            |                              |                 |              |                         |                          |           |             |             |
|            |                              |                 |              |                         |                          |           |             |             |
|            |                              |                 |              |                         |                          |           |             |             |

|   |  |        |
|---|--|--------|
| Relinquished by: (signature) <u>Sarah Cady Owen</u> Date/Time <u>12/28/04 11:25</u> | Received by: (signature) <u>CBOWRO</u> Date/Time <u>12-28-04 11:26am</u> | Notes: |
| Relinquished by: (signature) <u>CBOWRO</u> Date/Time <u>12-28-04</u>                | Received by: (signature) <u>DHL Shipping</u> Date/Time                   |        |
| Relinquished by: (signature) <u>CBOWRO</u> Date/Time                                | Received by: (signature) <u>CBOWRO</u> Date/Time <u>12/29</u>            |        |

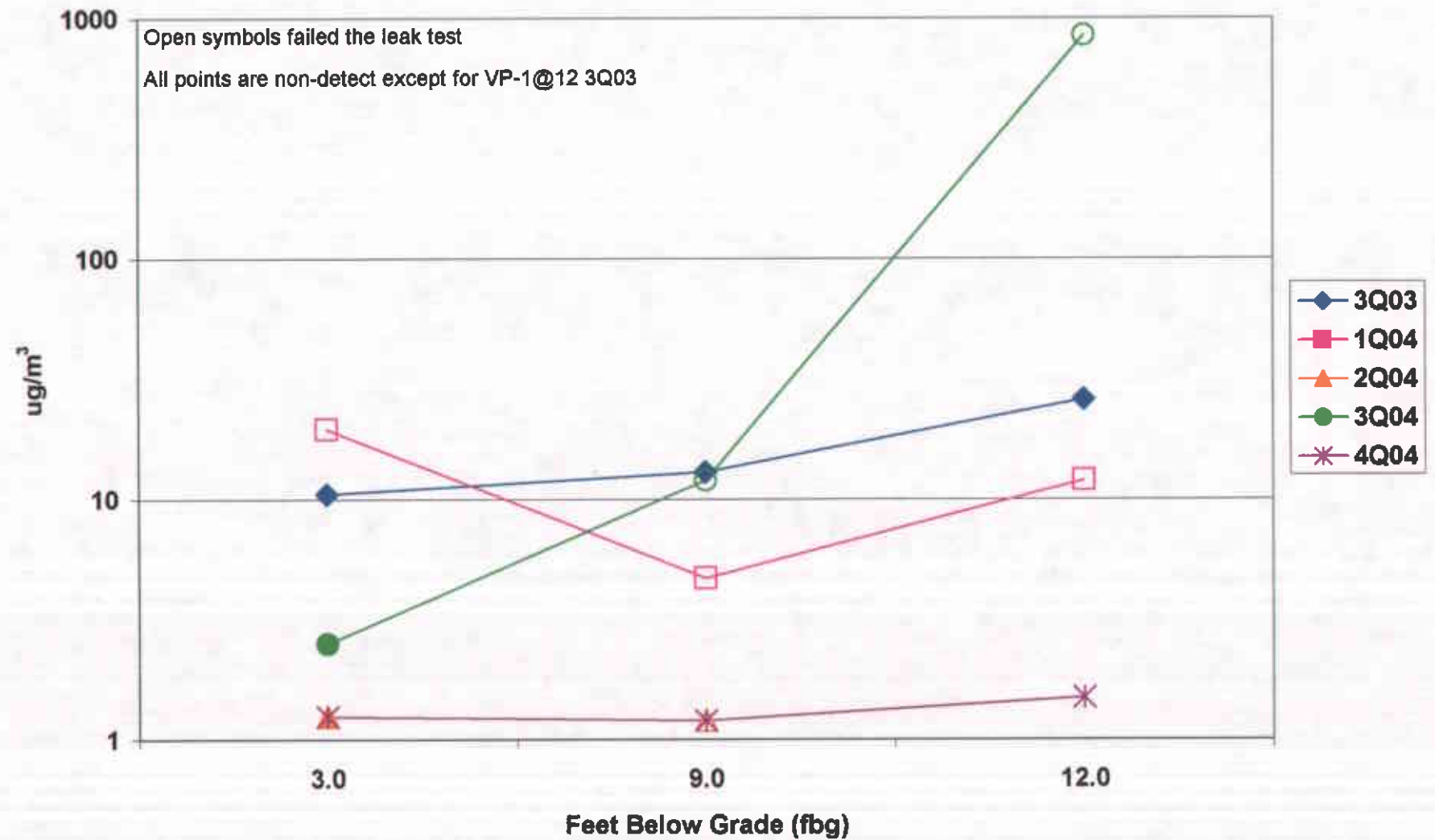
|                 |                                   |            |           |                        |  |                             |
|-----------------|-----------------------------------|------------|-----------|------------------------|--|-----------------------------|
| Lab: <u>DHL</u> | Shipper Name: <u>5AB 485 4523</u> | Air Bill # | Temp (°C) | Condition: <u>good</u> | Custody Seals Intact? <u>Yes No None</u> | Work Order # <u>0412548</u> |
|-----------------|-----------------------------------|------------|-----------|------------------------|--|-----------------------------|

**ATTACHMENT D**  
**Soil Vapor Trend Graphs**

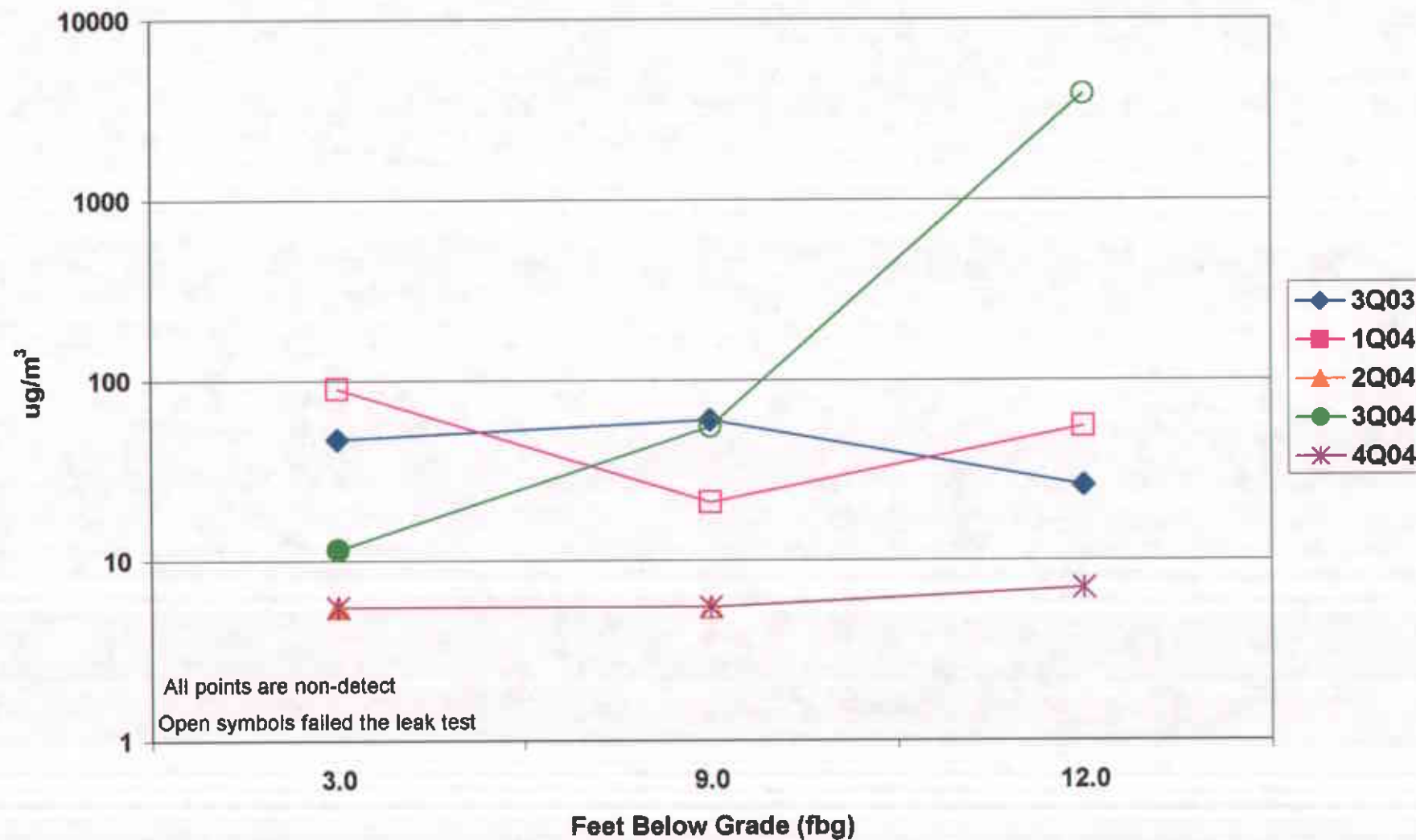
## Soil Vapor Concentrations of TPHg in Vapor Point VP-1



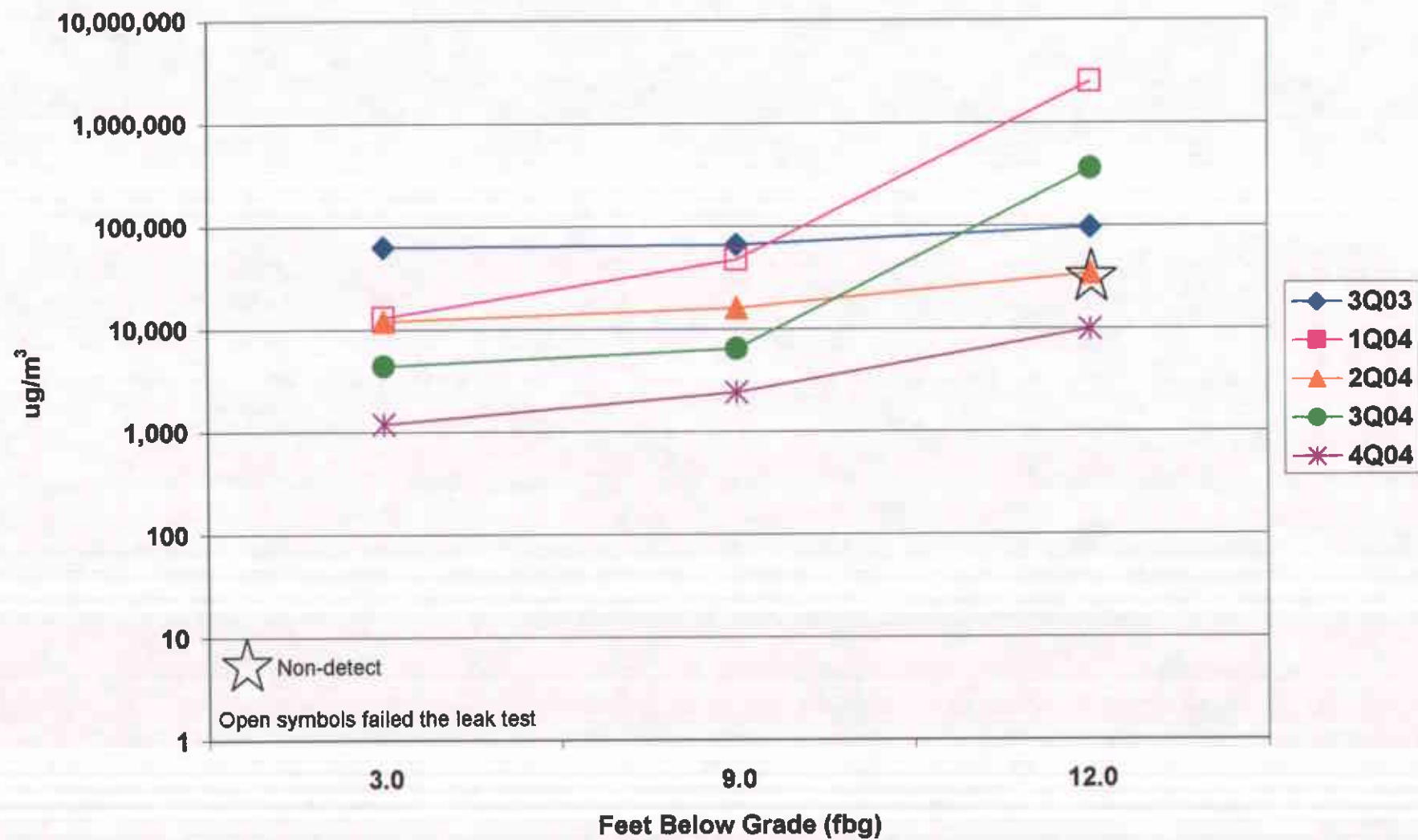
## Soil Vapor Concentration of Benzene in Vapor Point VP-1



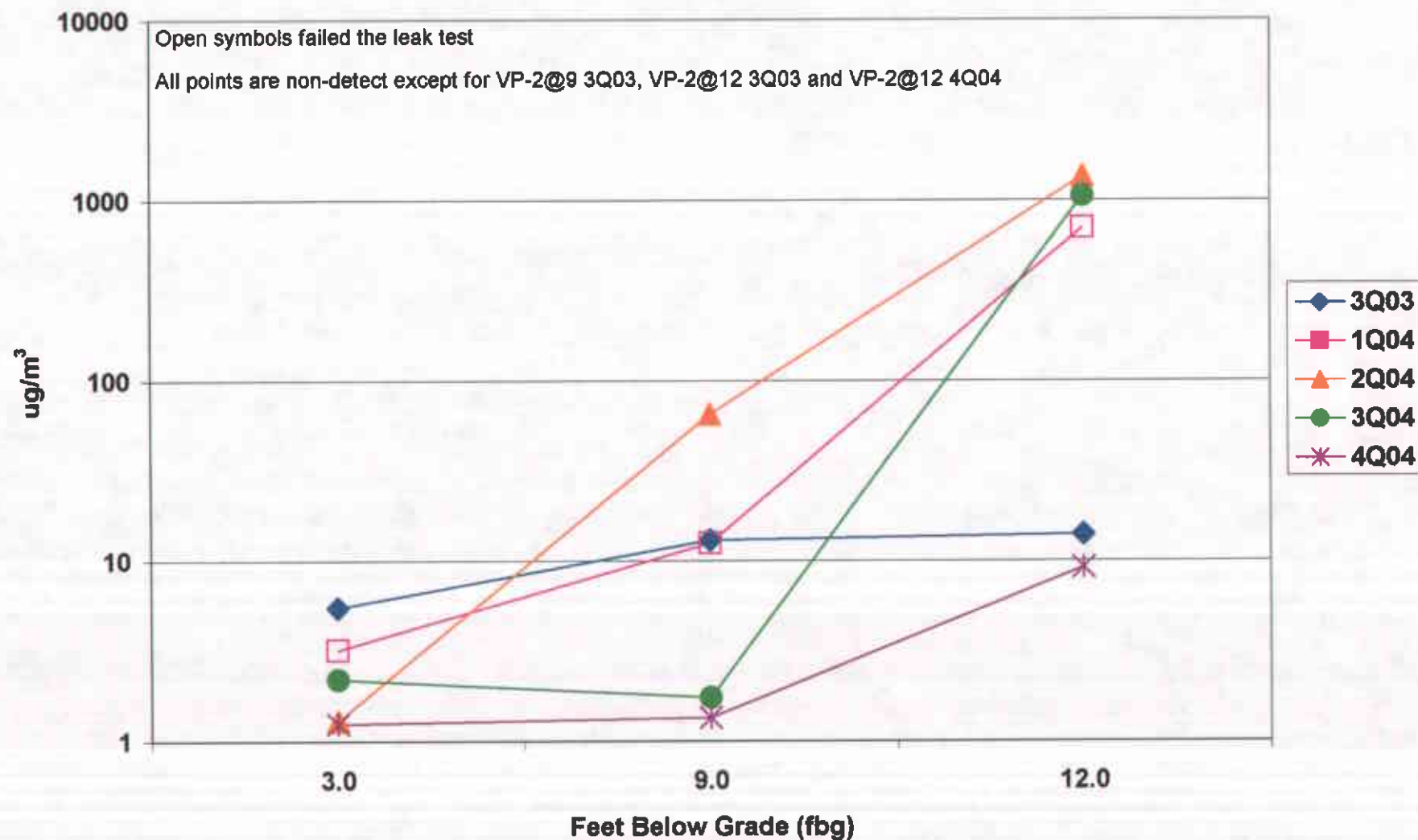
## Soil Vapor Concentrations of MTBE in Vapor Point VP-1



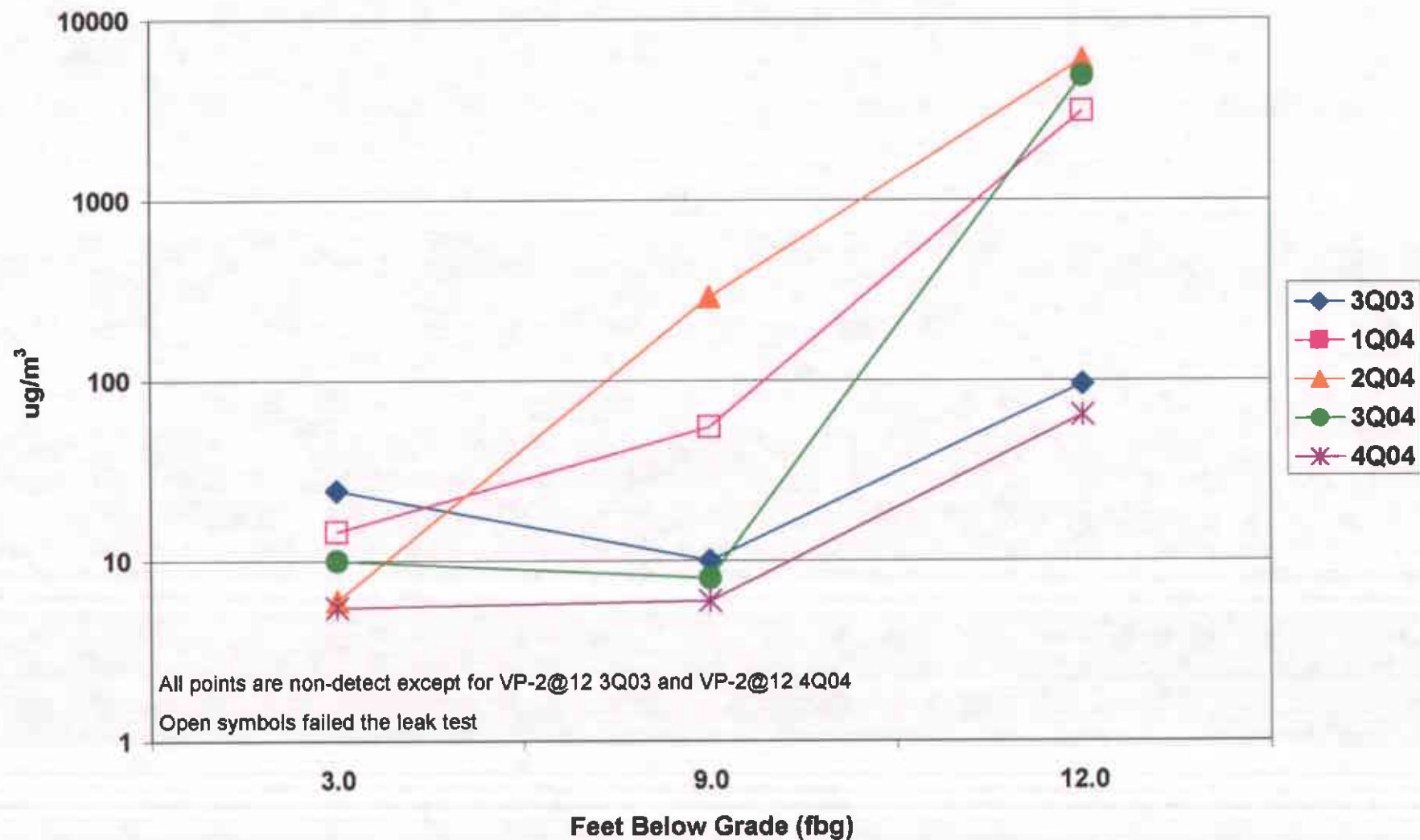
## Soil Vapor Concentrations of TPHg in Vapor Point VP-2



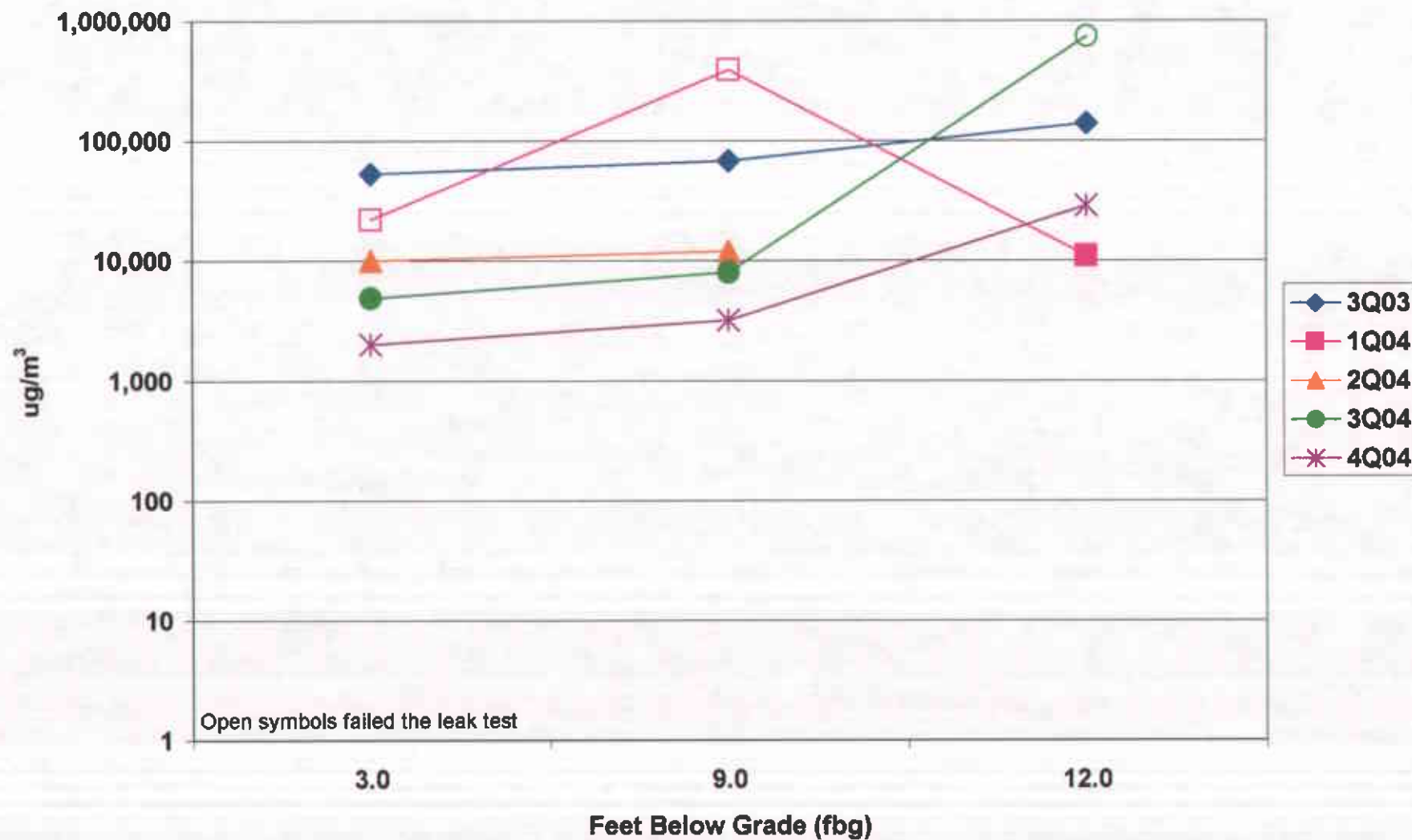
## Soil Vapor Concentrations of Benzene in Vapor Point VP-2



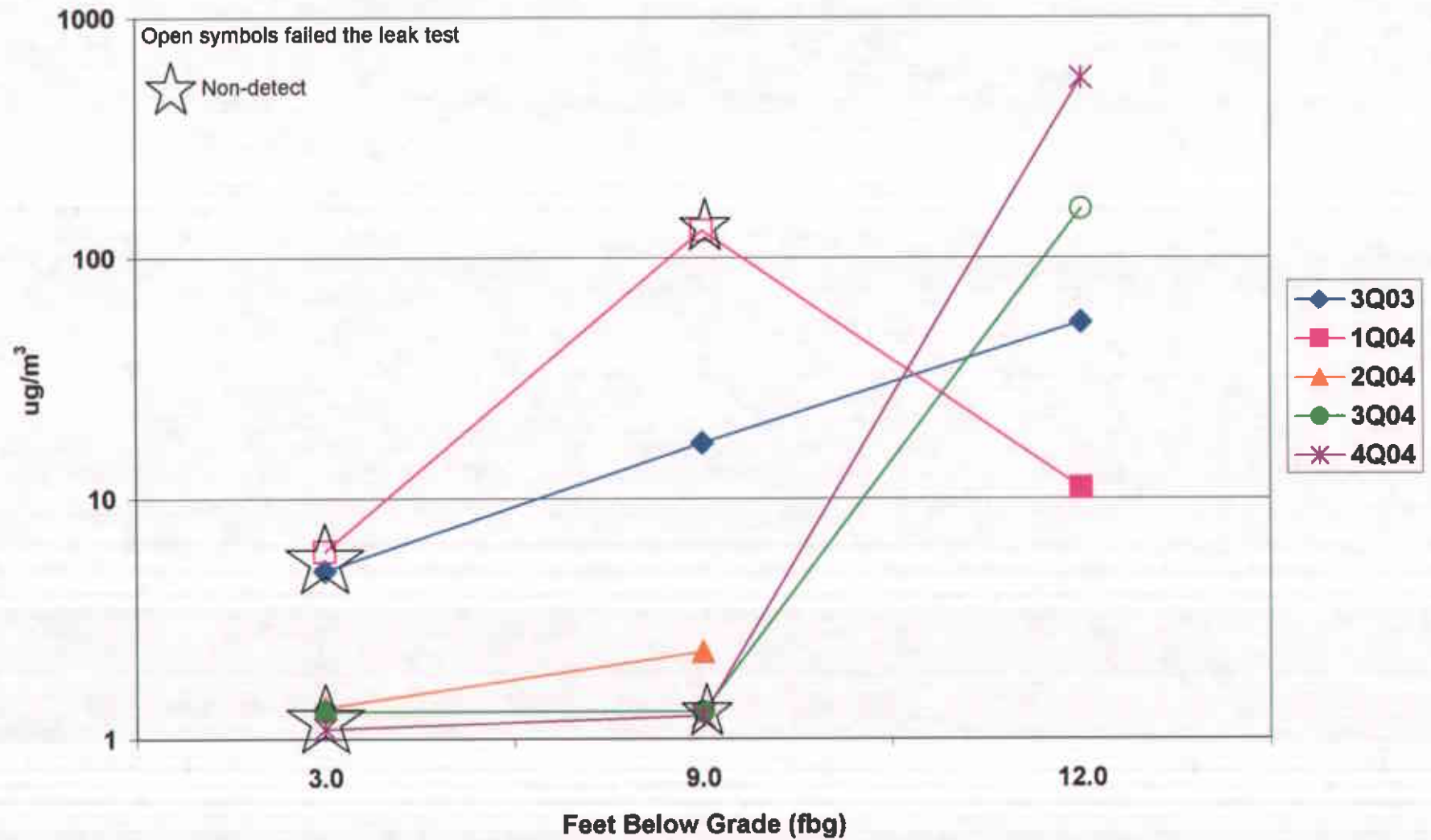
## Soil Vapor Concentrations of MTBE in Vapor Point VP-2



### Soil Vapor Concentrations of TPHg in Vapor Point VP-3



## Soil Vapor Concentrations of Benzene in Vapor Point VP-3



### Soil Vapor Concentrations of MTBE in Vapor Point VP-3

